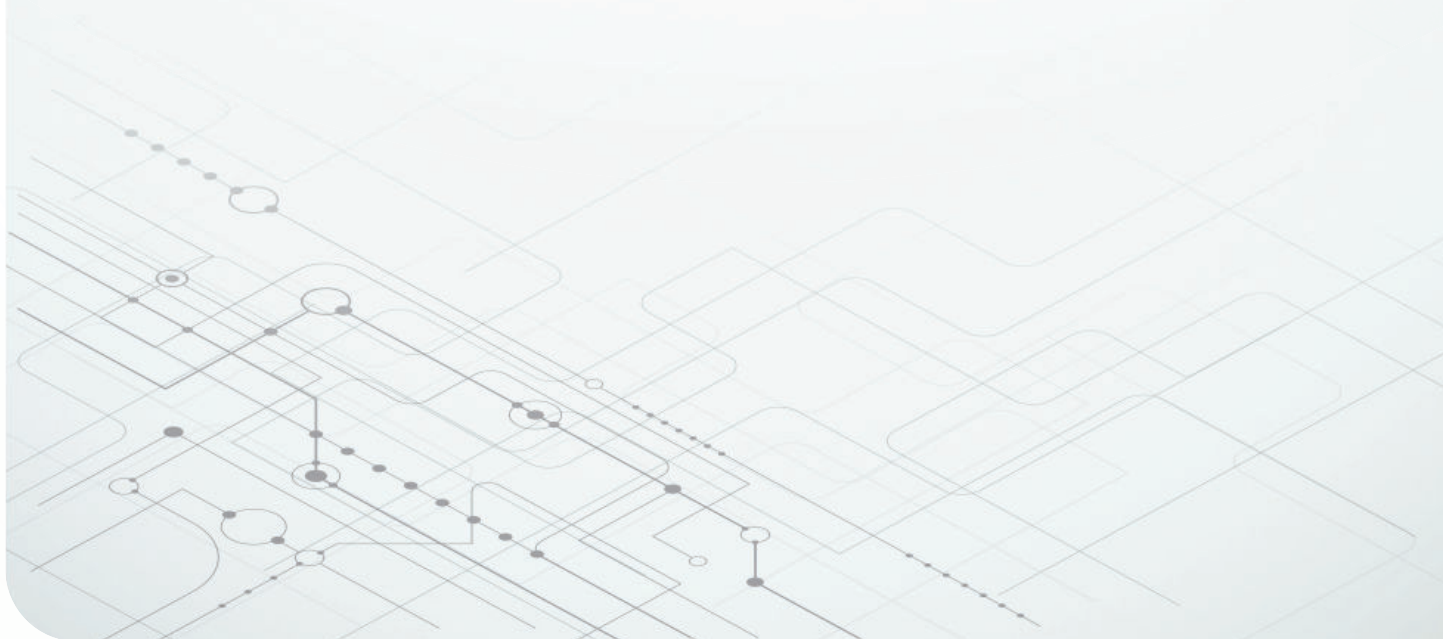


Enhanced Product Selection Guide



Discover portfolio of plastic-encapsulated COTS components optimized for avionics and defense applications

Table of Contents

Preface	4
Amplifiers	6
Op Amps.....	7
Instrumentation Amplifiers.....	10
Difference Amplifiers.....	10
Current Sense Amplifiers.....	10
Comparators.....	10
Special Function Amplifiers.....	11
Audio	12
Audio Op Amps.....	13
Clock and Timing	14
Clock Jitter Cleaners.....	15
Clock Buffers.....	15
Data Converters	16
ADCs.....	17
DACs.....	17
Digital Potentiometers (DigiPots).....	18
Interface	19
CAN/LIN.....	20
Ethernet.....	20
HDMI/DVI/DP/MIPI (CSI/DSI).....	20
LVDS/M-LVDS/PECL.....	20
RS-232.....	21
RS-485/RS-422.....	21
UART.....	22
1394.....	22
Isolation	23
Digital Isolators.....	24
Isolated Gate Drivers.....	24
Logic	25
Voltage Level Translation.....	26
Buffer/Driver.....	26
Transceivers.....	29
Gates.....	29
Flip-Flop/Latch/Register.....	31
Speciality Logic.....	32
Universal Bus Function.....	33
Motor Drivers	34
Brushless DC (BLDC) Motor Drivers.....	35
Microcontrollers	36
MSP430 Ultra-low-power MCUs.....	37
C2000 Real-time Control MCUs.....	37
Hercules MCUs for Functional Safety.....	38
Processors	39
Sitara Processors.....	40
Digital Signal Processors.....	40
Power Management	41
Linear Regulators (LDO).....	42
DC/DC Switching Regulators.....	46
Multi-channel ICs (PMIC).....	48
Battery Management.....	48

Power Muxes.....	48
Low-side Switches.....	48
USB Power Switches and Charging Port Controllers.....	49
Offline and Isolated DC/DC Controllers and Converters.....	49
Gate Drivers.....	50
Voltage References.....	50
Supervisor and Reset IC.....	51
LED Driver.....	52
DDR Memory.....	52
Digital Power.....	52
Sensors	54
Digital Temperature Sensors.....	55
Magnetic Sensor.....	55
Switches and Multiplexers	56
Analog Switches/Muxes.....	57
Encoders and Decoders.....	57

Preface

In 1994, a paradigm shift occurred within the defense community with the introduction of “Defense Acquisition Reform,” which had the objective to expand the consideration of commercial-off-the-shelf (COTS) components for defense equipment. In the years that followed both the avionics and defense industries were looking for viable approaches to procure COTS components while still ensuring that these components meet the critical performance, reliability and safety requirements their industries demanded. Texas Instrument’s enhanced product (-EP) plastic-encapsulated microcircuits (PEMs) portfolio is the solution. Beyond just meeting the reliability expectations for the PEMs semiconductors, we also complement this with extended device availability to match the expectation of the industry while enabling a low-cost portfolio for extensive use across these industries.

Our enhanced products portfolio mitigates the risks that the avionics and defense markets face with COTS integrated circuits (ICs) by:

- Using the latest and most robust plastic encapsulation methodology to support the harsh environment needs.
- Ensuring tin plating content is not above 97% to eliminate the risks related to time-dependent pin-to-pin metal shorts (aka tin whiskers) by assembling the device with NiPdAu plating or SnPb solder balls.
- Using only gold (Au) bond wires to ensure the highest quality die to leadframe connection.
- Performing extended 250 hours highly accelerated temperature and humidity stress testing (HAST) to demonstrate improved moisture resistance, extending both operational life and dormant storage capabilities.
- Extending temperature ranges from -55°C to 125°C to enable the broadest possible use cases.
- Ensuring a single controlled manufacturing baseline flow with a single wafer fab, assembly site and test site to ensure the applicability of customer’s qualification even over multi-decade programs.
- Ensuring orderable (V62/xxxx) DLA vendor items drawings part numbers that eliminate the need specification source controlled drawings.

Shop the TI store!

- Explore more than 45,000 TI products, including all of the Enhanced Products in this guide
- Multiple payment options, including line of credit (US only)
- No minimum order quantities
- Guaranteed authentic components for your military & avionics systems



TI store

 TEXAS INSTRUMENTS

Table 1. Enhanced Products New Device Qualification Matrix

Enhanced Products New Device Qualification Matrix				
(Note that qualification by similarity ("qualification family") per JEDEC JESD47 is allowed)				
Description	Condition	Sample Size (Allowed Rejects)	Lots Required	Test Method
Electromigration	Maximum Recommended Operating Conditions	N/A	N/A	Per TI Design Rules
Wire Bond Life	Maximum Recommended Operating Conditions	N/A	N/A	Per TI Design Rules
Electrical Characterization	TI Data Sheet	15	3	N/A
Electrostatic Discharge Sensitivity	HBM	3 units/voltage	N/A	EIA/JESD22-A114 or ANSI/ESDA/JEDEC JS-001
	CDM			EIA/JESD22-C101 or ANSI/ESDA/JEDEC JS-002
Latch-up	Per Technology	3(0)	1	EIA/JESD78
Physical Dimensions	TI Data Sheet	5(0)	1	EIA/JESD22- B100
Thermal Impedance	Theta-JA on board	Per Pin-Package	N/A	EIA/JESD51
Bias Life Test	125°C/1000 hours or equivalent	45(0)	3	JESD22-A108*
Biased Humidity** or Biased HAST**	85°C/85%/1000 hours	77(0)	3	JESD22-A101*
	130°C/85%/96 hours or 110°C/85%/264 hours			JESD22-A110*
Extended Biased Humidity** or Extended Biased HAST**	85°C/85%/2600 hours	77(-)	1	JESD22-A101*
	130°C/85% /250 hours or 110°C/85%/687 hours			JESD22-A110*
Unbiased HAST	130°C/85% /96 hours or 110°C/85%/264 hours	77(0)	3	JESD22-A.118*
Temperature Cycle	-65°C to +150°C non-biased for 500 cycles	77(0)	3	JESD22-A104*
Solder Heat	260°C for 10 seconds	22(0)	1	JESD22-B106
Resistance to Solvents	Ink symbol only	12(0)	1	JESD22-B107
Solderability	Bake Preconditioning	22(0)	1	ANSI/J-STD-002
Flammability	Method A / Method B	5(0)	1	UL94
Bond Shear	Per wire size	5 units x 30(0) bonds	3	JESD22-B116
Bond Pull Strength	Per wire size	5 units x 30(0) bonds	3	ASTM F-459 or TM2011
Die Shear	Per die size	5(0)	3	TM 2019
High Temp Storage	150°C / 1,000 hours	15(0)	3	JESD22-A103*
Moisture Sensitivity	Surface Mount Only	12	1	J-STD-020*
*Precondition performed per JEDEC Std. 22, Method A112/A113				
**For information only				

Amplifiers

- Op Amps •
- Instrumentation Amplifiers •
- Difference Amplifiers •
- Current Sense Amplifiers •
- Comparators •
- Special Function Amplifiers •

Op Amps

Table 2. Precision Op Amps

Part Number	Description	Number of Channels (#)	GBW (Typ) (MHz)	Total Supply Voltage (Max) (+5 V=5, ±5 V=10)	Total Supply Voltage (Min) (+5 V=5, ±5 V=10)	Vos (Offset Voltage at 25°C) (Max) (mV)	Operating Temperature Range (°C)	Package Group	DLA - VID
LT1014D-EP	Enhanced Product Quad Precision Operational Amplifier	4	0.7	44	5	0.45	-55 to 125	SOIC 16	V62/09614-01XE
OPA211-EP	Enhanced Product 1.1 nV/√Hz Noise, Low Power, Precision Operational Amplifier	1	45	36	4.5	0.1	-55 to 125	VSSOP 8	V62/12619-01XE
OPA2211-EP	1.1 nV/√Hz Noise, Low Power, Precision Operational Amplifier	2	45	36	4.5	0.175	-55 to 125	SON 8	V62/15606-01XE
OPA2227-EP	Enhanced Product High Precision, Low Noise Operational Amplifier	2	8	36	5	0.1	-55 to 125	SOIC 8	V62/12610-01XE
OPA2234M	Low Power, Precision Single-Supply Operational Amplifier	2	1	36	4	0.065	-55 to 125	SOIC 8	SMD#
OPA2227-EP	Enhanced Product High Precision Operational Amplifier	2	1	36	4	0.065	-55 to 125	SOIC 8	V62/14614-01XE
OPA2333A-EP	Enhanced Product 1.8 V, Micropower CMOS Operational Amplifier Zero-Drift Series	2	0.35	5.5	1.8	0.01	-55 to 125	SOIC 8	V62/07633-02ZE
OPA333A-EP	Enhanced Product 1.8 V, Micropower CMOS Operational Amplifier Zero-Drift Series	1	0.35	5.5	1.8	0.01	-55 to 125	SC70 5, SOT-23 5	V62/07633-01XE, V62/07633-01YE
OPA336-EP	Enhanced Product Single-Supply, Micropower Cmos Operational Amplifier	1	0.1	5.5	2.3	0.95	-55 to 125	SOT-23 5	V62/06641-01XE
OPA340-EP	Enhanced Product Single-Supply, Rail-to-Rail Operational Amplifier	1	5.5	5.5	2.7	0.5	-55 to 125	SOT-23 5	V62/08618-01XE
OPA4277-EP	Enhanced Products High Precision Operational Amplifier	4	1	36	4	0.065	-55 to 125	SOIC 14	V62/14625-01XE
TLC2252A-EP	Enhanced Product Rail-To-Rail Very Low Power Operational Amplifier	2	0.2	16	4.4	0.85	-40 to 125	SOIC 8	V62/04682-02XE
TLC2254A-EP	Enhanced Product Rail-To-Rail Very Low-Power Quad Operational Amplifier	4	0.2	16	4.4	0.85	-40 to 125	SOIC 14	V62/04682-04YE
TLC2272A-EP	Enhanced Product Rail-To-Rail Dual Operational Amplifier	2	2.18	16	4.4	0.95	-55 to 125	SOIC 8	V62/03618-01XE
TLC2274A-EP	Enhanced Product Rail-To-Rail Quad Operational Amplifier	4	2.18	16	4.4	0.95	-55 to 125	SOIC 14, TSSOP 14	V62/03618-02UE, V62/03618-02YE
TLE2021A-EP	Enhanced Product Excalibur High-Speed Low-Power Precision Operational Amplifier	1	1.7	40	4	0.4	-40 to 125	SOIC 8	V62/04755-01XE
TLE2022A-EP	Enhanced Product Excalibur High-Speed Low-Power Precision Dual Operational Amplifier	2	1.7	40	4	0.4	-40 to 125	SOIC 8	V62/04755-03XE
TLE2024A-EP	Enhanced Product Excalibur High-Speed Low-Power Precision Quad Operational Amplifier	4	1.7	40	4	0.85	-40 to 125	SOIC 16	V62/04755-05YE
TLE2027-EP	Enhanced Product Excalibur Low-Noise High-Speed Precision Op Amp	1	13	38	8	0.1	-55 to 125	SOIC 8	V62/06674-01XE
TLE2141-EP	Enhanced Product Excalibur Low-Noise High-Speed Precision Op Amp	1	6	44	4	0.9	-55 to 125	SOIC 8	V62/08620-01XE
TLV2252A-EP	Enhanced Product Rail-To-Rail Very Low-Power Dual Operational Amplifier	2	0.2	16	2.7	0.85	-40 to 125	SOIC 8	V62/04651-02UE, V62/04651-02YE
TLV2254A-EP	Enhanced Product Rail-To-Rail Very Low-Power Quad Operational Amplifier	4	0.2	16	2.7	0.85	-40 to 125	SOIC 14	V62/04651-04XE, V62/04651-04ZE

Table 3. High-speed Op Amps (>=50 MHz)

Part Number	Description	Number of Channels (#)	GBW (Typ) (MHz)	Total Supply Voltage (Max) (+5 V=5, ±5 V=10)	Total Supply Voltage (Min) (+5 V=5, ±5 V=10)	BW at Acl (MHz)	Operating Temperature Range (°C)	Package Group	DLA - VID
OPA2356-EP	Enhanced Product 2.5V, 200MHz GBW, CMOS Dual Operational Amplifier	2	200	2.5	5.5	450	-55 to 125	VSSOP 8	V62/18809-01XE
OPA365-EP	Enhanced Product 2.2V, 50MHz, Low-Noise, Single-Supply Rail-to-Rail Operational Amplifier	1	50	2.2	5.5	50	-55 to 125	SOT-23 5	V62/11610-01XE
OPA830-EP	Enhanced Product Low-Power, Single-Supply, Wideband Operational Amplifier	1	310	2.8	11	310	-40 to 105	SOT-23 5	V62/14610-01XE
THS4032-EP	Enhanced Product 100-MHz Low-Noise High-Speed Operational Amplifier	2	200	10	30	200	-55 to 125	MSOP-PowerPAD 8	V62/09612-01XE
THS4271-EP	Enhanced Product Low Noise High Slew Rate Unity Gain Stable Voltage Feedback Amplifier	1	1400	5	10	1400	-55 to 125	MSOP-PowerPAD 8	V62/05610-01YE
THS4500-EP	Enhanced Product Wideband, Low-Distortion, Fully Differential Amplifier	1	300	4.5	15	370	-55 to 125	MSOP-PowerPAD 8	V62/13610-01XE
THS4503-EP	Enhanced Product Wideband Low-Distortion Fully Differential Amplifier	1	300	4.5	15	370	-55 to 125	MSOP-PowerPAD 8	V62/05608-03YE
THS4524-EP	Enhanced Product Quad Ch rail-to-rail output Fully Differential Amplifier	4	95	2.5	5.5	145	-55 to 125	TSSOP 38	V62/12612-01XE

Table 4. General-Purpose Op Amps

Part Number	Description	Number of Channels (#)	GBW (Typ) (MHz)	Total Supply Voltage (Max) (+5 V=5, ±5 V=10)	Total Supply Voltage (Min) (+5 V=5, ±5 V=10)	Vos (Offset Voltage at 25°C) (Max) (mV)	Operating Temperature Range (°C)	Package Group	DLA - VID
LM258A-EP	Enhanced Product Dual Operational Amplifier	2	0.7	32	3	3	-55 to 125	SOIC 8	V62/07605-01XE
LM2902-EP	Enhanced Product Quadruple Operational Amplifier	4	1.2	26	3	7	-55 to 125	TSSOP 14	V62/06622-01XE, V62/06622-04XE
OPA170-EP	Enhanced Product 36-V Single Supply, Low Power Operational Amplifier	1	1.2	36	2.7	1.8	-40 to 150	SOT-5X3 5	V62/12627-01XE
OPA2171-EP	36-V, Single-Supply, SOT553, General-Purpose Operational Amplifier	2	3	36	2.7	1.8	-55 to 125	VSSOP 8	V62/15605-01XE
OPA2314-EP	Enhanced Product Low-Power Low-Noise RRIO 1.8V CMOS Operational Amplifier	2	3	5.5	1.8	2.5	-40 to 150	SON 8	V62/12626-01XE
TL072-EP	Enhanced Product Dual Low-Noise JFET-Input General-Purpose Operational Amplifier	2	3	36	30	6	-40 to 125	SOIC 8	V62/12604-01XE
TL074-EP	Enhanced Product Quad Low-Noise JFET-Input, General Purpose Operational Amplifier	4	3	36	30	6	-55 to 125	SOIC 14	V62/11621-01XE
TLC2274-EP	Enhanced Product Advanced Lincmos(Tm) Rail-To-Rail Operational Amplifier	4	2.18	16	4.4	2.5	-55 to 125	SOIC 14	V62/03618-02UE, V62/03618-02YE
TLE2024-EP	Enhanced Product Excalibur High-Speed Low-Power Precision Operational Amplifier	4	1.7	40	4	1.1	-40 to 125	SOIC 16	V62/04755-05YE, V62/04755-06YE
TLE2144-EP	Enhanced Product Excalibur Low-Noise High-Speed Precision Quad Operational Amplifier	4	6	44	4	2.4	-55 to 125	SOIC 16	V62/08620-03YE
TLV2371-EP	Enhanced Product 550-Ua/Ch 3-Mhz Rail-To-Rail Input/Output Operational Amplifier	1	3	16	2.7	4.5	-55 to 125	SOT-23 5	V62/05611-03TE
TLV2374-EP	Enhanced Product 550-Ua/Ch 3-Mhz Rail-To-Rail Input/Output Operational Amplifier	4	3	16	2.7	4.5	-55 to 125	SOIC 14	V62/05611-01YE
TLV2462A-EP	Enhanced Product Low-Power Rail-To-Rail Input/Output Operational Amplifier With Shutdown	2	6.4	6	2.7	1.5	-55 to 125	SOIC 8	V62/03619-03XE, V62/03619-06XE
TLV2464A-EP	Enhanced Product Low-Power Rail-To-Rail Input/Output Operational Amplifier	4	6.4	6	2.7	1.5	-55 to 125	SOIC 14, TSSOP 14	V62/03619-07YE, V62/03619-07ZE
TLV2772A-EP	Enhanced Product 2.7-V High-Slew-Rate Rail-To-Rail Output Operational Amplifier	2	5.1	5.5	2.5	1.6	-55 to 125	SOIC 8	V62/06607
TLV2774A-EP	Enhanced Product 2.7-V High-Slew-Rate Rail-To-Rail Output Operational Amplifier	4	5.1	5.5	2.5	2.1	-55 to 125	SOIC 14	V62/06607-04YE
TLV2774-EP	Enhanced Product 2.7-V High-Slew-Rate Rail-To-Rail Output Operational Amplifier	4	5.1	5.5	2.5	2.5	-55 to 125	SOIC 14	V62/06607-03YE

Table 5. Power Op Amps

Part Number	Description	Number of Channels (#)	GBW (Typ) (MHz)	Total Supply Voltage (Min) (+5 V=5, ±5V=10)	Total Supply Voltage (Max) (+5 V=5, ±5 V=10)	Vos (Offset Voltage at 25°C) (Max) (mV)	Operating Temperature Range (°C)	Package Group	DLA - VID
TLV4113-EP	Enhanced Product Dual High Output Drive Operational Amplifier With Shutdown	2	2.7	2.5	6	3.5	-55 to 125	MSOP-PowerPAD 10	V62/06646-04ZE

Table 6. Fully Differential Op Amps

Part Number	Description	Number of Channels (#)	GBW (Typ) (MHz)	Total Supply Voltage (Min) (+5 V=5, ±5 V=10)	Total Supply Voltage (Max) (+5 V=5, ±5 V=10)	Vos (Offset Voltage at 25°C) (Max) (mV)	Operating Temperature Range (°C)	Package Group	DLA - VID
THS4500-EP	Enhanced Product Wideband, Low-Distortion, Fully Differential Amplifier	1	300	4.5	15	7	-55 to 125	MSOP-PowerPAD 8	V62/13610-01XE

Part Number	Description	Number of Channels (#)	GBW (Typ) (MHz)	Total Supply Voltage (Min) (+5 V=5, ±5 V=10)	Total Supply Voltage (Max) (+5 V=5, ±5 V=10)	Vos (Offset Voltage at 25°C) (Max) (mV)	Operating Temperature Range (°C)	Package Group	DLA - VID
THS4503-EP	Enhanced Product very low power quad channel rail-to-rail output fully Differential Amplifier	4	95	2.5	5.5	8	-55 to 125	TSSOP 38	V62/05608-03YE
THS4524-EP	Enhanced Product Wideband Low-Distortion Fully Differential Amplifier	1	300	4.5	15	6	-55 to 125	MSOP-PowerPAD 8	V62/12612-01XE

Instrumentation Amplifiers

Table 7. Instrumentation Amplifiers

Part Number	Description	Gain (V/V)	Number of Channels (#)	Vs (Max) (V)	Vs (Min) (V)	Bandwidth at Min Gain (Typ) (MHz)	Operating Temperature Range (°C)	Package Group	DLA - VID
INA129-EP	Enhanced Product Precision, Low Power Instrumentation Amplifiers	1	1	36	4.5	1.3	-55 to 125	SOIC 8	V62/10605-01XE

Difference Amplifiers

Table 8. Difference Amplifiers

Part Number	Description	Gain (V/V)	Vs (Min) (V)	Vs (Max) (V)	Common Mode Input Low (Min) (V)	Input Offset (±) (Max) (μV)	Operating Temperature Range (°C)	Package Group	DLA - VID
INA149-EP	Enhanced Product High Common Mode Voltage Difference Amplifier	1	2	18	275	3500	-55 to 125	SOIC 8	V62/12614-01XE
INA159-EP	Enhanced Product Precision, Gain of 0.2 Level Translation Difference Amplifier	0.2	1.8	5.5	-12.5	500	-55 to 125	VSSOP 8	V62/09613-01XE

Current Sense Amplifiers

Table 9. Current Sense Amplifiers

Part Number	Description	Gain (V/V)	Common Mode Voltage (Max) (V)	Supply Voltage (Max) (V)	Supply Voltage (Min) (V)	Input Offset (±) (Max) (μV)	Operating Temperature Range (°C)	Package Group	DLA - VID
INA193A-EP	Enhanced Product, -16V to +80V, Low-/High-side, High-Speed, Voltage Output Current Shunt Amplifier	20	80	18	2.7	2000	-55 to 125	SOT-23 5	V62/07638-01XE

Comparators

Table 10. Comparators

Part Number	Description	Number of Channels (#)	Vs (Max) (V)	Vs (Min) (V)	Vos (Offset Voltage at 25°C) (Max) (mV)	Propagation Delay Time (μs)	Operating Temperature Range (°C)	Package Group	DLA - VID
LM211-EP	Enhanced Product Differential Comparator With Strobes	1	30	3.5	3	0.115	-55 to 125	SOIC 8	V62/03638-01XE, V62/03638-02XE
LM239A-EP	Enhanced Product Dual Differential Comparator	2	36	2	5	1.3	-55 to 125	SOIC 8	V62/03672-01XE, V62/03672-02XE, V62/03672-02YE
LM293-EP	Enhanced Product Quad Differential Comparator	4	36	2	2.5	1.3	-55 to 125	SOIC 14, TSSOP 14	V62/07646-01XE
TL331-EP	Enhanced Product Single Differential Comparator	1	36	2	5	0.3	-55 to 125	SOT-23 5	V62/13611-01XE
TLC3702-EP	Enhanced Product Dual Micropower Voltage Comparator	2	16	4	5	1.1	-55 to 125	SOIC 8	V62/03643-01XE
TLC372-EP	Enhanced Product Dual Differential Comparator	2	16	4	5	0.2	-55 to 125	SOIC 8	V62/06675-01XE
TLV3492A-EP	Enhanced Product 1.8 V, Nanopower, Push-Pull Output Comparator	2	5.5	1.8	15	6	-55 to 125	SOIC 8	V62/07635-02XE

Part Number	Description	Number of Channels (#)	Vs (Max) (V)	Vs (Min) (V)	Vos (Offset Voltage at 25°C) (Max) (mV)	Propagation Delay Time (μs)	Operating Temperature Range (°C)	Package Group	DLA - VID
TLV3701-EP	Enhanced Product Nanopower Push-Pull Output Comparator	1	16	2.7	5	36	-40 to 125	SOT-23 5	V62/04726-01XE

Special Function Amplifiers

Table 11. Special Function Amplifiers

Part Number	Description	Scale Factor (V/Decade)	Offset Voltage (Max) (mV)	Full-scale Output Voltage (Min) (±V)	Full-scale Output Voltage (Max) (±V)	Specified Voltage (±V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TL441-EP	Enhanced Product Logarithmic Amplifier	0.008	±70	5.45	5.85	6	-55 to 125	SO (NS) 16	V62/05603-01XE

Audio

Audio Op Amps •

Audio Op Amps

Table 12. Audio Op Amps

Part Number	Description	Number of Channels (#)	GBW (Typ) (MHz)	Total Supply Voltage (Min) (+5 V=5, ±5 V=10)	Total Supply Voltage (Max) (+5 V=5, ±5 V=10)	Vos (Offset Voltage at 25°C) (Max) (mV)	Operating Temperature Range (°C)	Package Group	DLA - VID
MC33078-EP	Enhanced Product Dual High-Speed Low-Noise OpAmp	2	16	10	36	2	-55 to 125	SOIC 8	V62/07606-01XE
INA2134-EP	Enhanced Product Audio Differential Line Receiver	2	-	8	36	-	-55 to 125	SOIC 14	V62/12613-01XE

Clock and Timing

- [Clock Jitter Cleaners](#)
- [Clock Buffers](#)

Clock Jitter Cleaners

Table 13. Clock Jitter Cleaners

Part Number	Description	Output Level	Number of Outputs	Output Frequency (Max) (MHz)	VCO Frequency (Min) (MHz)	VCO Frequency (Max) (MHz)	Operating Temperature Range (°C)	Package Group	DLA - VID
LMK04828-EP	Enhanced Product Ultra Low-Noise JESD204B Compliant Clock Jitter Cleaner	HSDS, LCPECL, LVDS, LVPECL	14	3200	2450	3200	-55 to 105	WQFN 64	V62/18602-01XE

Clock Buffers

Table 14. Clock Buffers

Part Number	Mixed Signal Microcontroller, MSP430F5328-EP	SubFamily	Output Frequency (Max) (MHz)	Number of Outputs	Output Level	VCC (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
CDC2351-EP	Enhanced Product 1-Line To 10-Line Clock Driver	Single-ended	100	10	LVTTTL	3.3	-55 to 125	SSOP 24	V62/04757-01XE
CDCLVP111-EP	Enhanced Product, 1:10 LVPECL Buffer with Selectable Input	Differential	3500	10	LVPECL	2.5, 3.3	-55 to 125	LQFP 32	V62/12624-01XE
CDCV304-EP	Enhanced Product General Purpose and PCI-X 1:4 Clock Buffer	Single-ended	200	4	LVTTTL	2.5, 3.3	-40 to 105	TSSOP 8	V62/12618-01XE
CDCVF2310-EP	Enhanced Product 2.5-V to 3.3-V High Performance Clock Buffer	Single-ended	200	10	LVTTTL	2.5, 3.3	-55 to 125	TSSOP 24	V62/13603-01XE

Data Converters

- [ADCs](#) •
- [DACs](#) •
- [Digital Potentiometers \(DigiPots\)](#) •

ADCs

Table 15. ADCs

Part Number	Description	SubFamily	Resolution (Bits)	Sample Rate (Max) (MSPS)	Number of Input Channels	Interface	Operating Temperature Range (°C)	Package Group	DLA - VID
ADS1258-EP	Enhanced Product 16-channel 24-bit Analog-to-Digital Converter	Precision ADCs (<=10MSPS)	24	0.125	16	SPI	-55 to 125	HTQFP 48, VQFN 48	V62/09626-02Y E, V62/09626-01Y E, V62/09626-01X E
ADS1278-EP	Enhanced Product Octal, 144kHz, Simultaneous Sampling 24-Bit Delta Sigma Analog-to-Digital Converter	Precision ADCs (<=10MSPS)	24	0.144	8	SPI	-55 to 125	HTQFP 64	V62/12611-01X E
ADS4245-EP	Enhanced Product, Dual-Channel, 14-Bit, 125-MSPS Analog-to-Digital Converter	High-speed ADCs (>10MSPS)	14	125	2	DDR LVDS, Parallel CMOS	-55 to 125	VQFN 64	V62/14609-01X E
ADS5440-EP	Enhanced Product 13-Bit, 210-MSPS Analog-to-Digital Converter	High-speed ADCs (>10MSPS)	13	210	1	Parallel LVDS	-55 to 125	HTQFP 80	V62/06669-01X E
ADS5444-EP	Enhanced Product 13-Bit, 250-MSPS Analog-to-Digital Converter	High-speed ADCs (>10MSPS)	13	250	1	Parallel LVDS	-55 to 125	HTQFP 80	V62/06668-01X E
ADS5463-EP	Enhanced Product 12-Bit, 500-MSPS Analog-to-Digital Converter	High-speed ADCs (>10MSPS)	12	500	1	Parallel LVDS	-55 to 125	HTQFP 80	V62/07607-01X E
ADS5500-EP	Enhanced Product 14-Bit, 125-MSPS Analog-to-Digital Converter	High-speed ADCs (>10MSPS)	14	125	1	Parallel CMOS	-55 to 125	HTQFP 64	V62/05613-01X E, V62/05613-02X E
ADS6444-EP	Enhanced Product Quad-Channel, 14-Bit, 105-MSPS Analog-to-Digital Converter	High-speed ADCs (>10MSPS)	14	105	4	Serial LVDS	-55 to 125	VQFN 64	V62/08628-02X E
ADS6445-EP	Enhanced Product Quad-Channel, 14-Bit, 125-MSPS Analog-to-Digital Converter	High-speed ADCs (>10MSPS)	14	125	4	Serial LVDS	-55 to 125	VQFN 64	V62/08628-01X E
THS1206-EP	Enhanced Product 12-Bit, 6 Msps Analog-to-Digital Converter Quad	Precision ADCs (<=10MSPS)	12	6	4	Parallel	-55 to 125	TSSOP 32	V62/03609-01X E
THS1408-EP	Enhanced Product 14-Bit, 8 Msps Analog-to-Digital Converter with Differential Input, Pgmable Gain Amp	High-speed ADCs (>10MSPS)	14	8	1	Parallel CMOS	-55 to 125	HTQFP 48	V62/03608-03X E
TLC1543-EP	Enhanced Product 10-Bit Analog-To-Digital Converters with Serial Control and 11 Analog Inputs	Precision ADCs (<=10MSPS)	10	0.038	11	SPI	-40 to 125	SOIC 20	V62/04647-01X E
TLC2543-EP	Enhanced Product 12-Bit ADC with Serial Control and 11 Analog Inputs	Precision ADCs (<=10MSPS)	12	0.066	11	SPI	-55 to 125	SOIC 20, SSOP 20	V62/03614-01X E, V62/03614-02Y E
TLV1548-EP	Enhanced Product Low-Voltage 10-Bit Analog-to-Digital Converter with Serial Control and 8 Analog Input	Precision ADCs (<=10MSPS)	10	0.091	8	SPI	-40 to 125	SSOP 20	V62/04618-01X E
TLV2548-EP	Enhanced Product 2-Bit 200 kSPS Analog-to-Digital Converter Serial Out	Precision ADCs (<=10MSPS)	12	0.2	8	SPI	-55 to 125	TSSOP 20	V62/10603-01X E
TLV2556-EP	Enhanced Product 12-Bit, 200 KSPS, 11 Channel, Low Power, Serial Analog-to-Digital Converter w/ Reference	Precision ADCs (<=10MSPS)	12	0.2	11	SPI	-55 to 125	TSSOP 20	V62/08622-01X E

DACs

Table 16. DACs

Part Number	Description	SubFamily	DAC Channels	Resolution (Bits)	Sample/Update Rate (MSPS)	Interface	Operating Temperature Range (°C)	Package Group	DLA - VID
DAC5652-EP	Enhanced Product Dual-Channel, 10-Bit, 275-MSPS Digital-to-Analog Converter	High-speed DACs (>10MSPS)	2	10	275	Parallel CMOS	-55 to 125	TQFP 48	01XE, V62/06638-02X E

Part Number	Description	SubFamily	DAC Channels	Resolution (Bits)	Sample/Update Rate (MSPS)	Interface	Operating Temperature Range (°C)	Package Group	DLA - VID
DAC5662-EP	Enhanced Product 12-bit 200-Msps Dual Digital-to-Analog Converter	High-speed DACs (>10MSPS)	2	12	200	Parallel CMOS	-55 to 125	TQFP 48	V62/06651-01X E, V62/06651-02X E
DAC5672-EP	Enhanced Product Dual 14-Bit 200-Msps Digital-To-Analog Converter	High-speed DACs (>10MSPS)	2	14	275	Parallel CMOS	-55 to 125	TQFP 48	V62/06639-01X E, V62/06639-02X E
DAC5675-EP	Enhanced Product 14-Bit 400-Msps Digital-to-Analog Converter	High-speed DACs (>10MSPS)	1	14	400	Parallel LVDS	-55 to 125	HTQFP 48	V62/05619-01X E, V62/05619-02X E
DAC5687-EP	Enhanced Product, Dual-Channel, 16-Bit, 500-MSPS Digital-to-Analog Converter	High-speed DACs (>10MSPS)	2	16	500	Parallel CMOS	-55 to 125	HTQFP 100	V62/06650-01X E
DAC8830-EP	Enhanced Product 16-Bit Ultra-Low Power Voltage-Output Digital-To-Analog Converter	Precision DACs (<=10MSPS)	1	16	1	SPI	-55 to 125	SOIC 8	V62/06671-01X E, V62/06671-02X E
DAC8831-EP	Enhanced Product 16-Bit Ultra-Low Power Voltage-Output Digital-To-Analog Converter	Precision DACs (<=10MSPS)	1	16	2	SPI	-55 to 125	SOIC 14	V62/06671-03Y E, V62/06671-04Y E
TLV5614-EP	Enhanced Product Quad Digital-to-Analog Converter with Powerdown	Precision DACs (<=10MSPS)	4	12	0.102	SPI	-55 to 125	TSSOP 16	V62/06602-01X E
TLV5618A-EP	Enhanced Product Digital-to-Analog Converter w/Power Down	Precision DACs (<=10MSPS)	2	12	0.093	SPI	-55 to 125	SOIC 8	V62/04646-01X E
TLV5619-EP	Enhanced Product 12-Bit, Digital-to-Analog Converter, Voltage Out	Precision DACs (<=10MSPS)	1	12	1	Parallel	-40 to 125	SOIC 20	V62/03615-01X E
TLV5638-EP	Enhanced Product 12-Bit, 1 Us Serial Input Dual Digital-to-Analog Converter	Precision DACs (<=10MSPS)	2	12	0.233	SPI	-55 to 125	SOIC 8	V62/03628-01X E, V62/03628-02X E

Digital Potentiometers (DigiPots)

Table 17. Digital Potentiometers (DigiPots)

Part Number	Description	Number of Steps	Number of Channels (#)	End to End Resistance (Typ) (kΩ)	Interface	Temp Coeff (Typ) (ppm/°C)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPL0102-EP	Enhanced Product 256-Taps Dual-Channel Digital Potentiometer with Nonvolatile Memory	256	2	100	I2C	130	-40 to 125	TSSOP 14	V62/14613-01X E

Interface

- CAN/LIN •
- Ethernet •
- HDMI/DVI/DP/MIPI (CSI/DSI) •
- LVDS/M-LVDS/PECL •
- RS-232 •
- RS-485/RS-422 •
- UART •
- 1394 •

CAN/LIN

Table 18. CAN/LIN

Part Number	Description	Protocols	Supply Voltage(s) (V)	Bus Fault Voltage (V)	Common Mode Voltage (V)	HBM ESD (kV)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN65HVD1050-EP	Enhanced Product 5V CAN Transceiver	CAN	4.75 to 5.25	-27 to 40	-12 to 12	4	-55 to 125	SOIC 8	V62/07608-01XE
SN65HVD230M-EP	Enhanced Product 3.3-V CAN Transceiver	CAN	3.0 to 3.6	-4 to 16	-2 to 7	16	-55 to 125	SOIC 8	V62/06629-01XE
SN65HVD233-EP	Enhanced Product 3.3-V CAN Transceiver	CAN	3.0 to 3.6	-36 to 36	-7 to 12	16	-55 to 125	SOIC 8	V62/09611-01XE

Ethernet

Table 19. Ethernet

Part Number	Description	# of Channels	Standard	Supply Voltage (Min) (V)	Supply Voltage (Max) (V)	Interface	Operating Temperature Range (°C)	Package Group	DLA - VID
DP83848-EP	Enhanced Product 10/100 Mb/s Ethernet PHY	1	IEEE 802.3	3.0	3.6	MII/RMII/SNI	-55 to 125	HTQFP 48	V62/12615-01XE
DP83867-EP PREVIEW DEVICE Expect availability early 2020	Enhanced Product 10/100/1000 Mb/s Ethernet PHY	1	IEEE 802.3	1.7	3.45	RGMII/SGMII	-55 to 105	VQFN 48	WIP

HDMI/DVI/DP/MIPI (CSI/DSI)

Table 20. HDMI/DVI/DP/MIPI (CSI/DSI)

Part Number	Description	Device Type	Video Standard	Supply Voltage (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TFP401A-EP	Enhanced Product Panel bus DVI Receiver 165MHz	Transceiver	DVI	3.3	-55 to 125	HTQFP 100	V62/09627-01XE
TFP410-EP	Enhanced Product Panel bus(Tm) Digital Transmitter	Bridges and transceivers	Panel Bus	3.3	-55 to 125	HTQFP 64	V62/06653-01XE
THS8200-EP	Enhanced Product Triple 11-Bit All Format Video Digital-to-Analog Converter	Bridges and transceivers	-	3.3	-40 to 85	HTQFP 80	V62/10604-01XE
TVP5150AM1-EP	Enhanced Product NTSC/PAL Video Decoder	Decoder	-	3.3	-55 to 125	TQFP 32	V62/08626-01XE

LVDS/M-LVDS/PECL

Table 21. LVDS/M-LVDS/PECL

Part Number	Description	Function	Signaling Speed (Mbps)	Supply Voltage (Max) (V)	Supply Voltage (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
DP15EA101-EP PREVIEW DEVICE Expect availability mid 2020	Enhanced Product 1.5-Gbps differential buffer	Buffer	1500	3.0	3.6	-55 to 125	WSON 8	WIP
DP15EA101-EP PREVIEW DEVICE Expect availability mid 2020		Cable equalizer	1500	3.0	3.6	-55 to 125	WQFN 16	WIP
SN65LV1023A-EP	Enhanced Product, 10:1 LVDS Serdes Transmitter	Driver	100-660	3.6	3.0	-55 to 125	SSOP 28	V62/06677-01XE
SN65LV1224B-EP	Enhanced Product, 1:10 LVDS Serdes Receiver	Receiver	100-660	3.6	3.0	-55 to 125	SSOP 28	V62/06677-02XE
SN65LVDS179-EP	Enhanced Product, Differential Line Transceiver	Transceiver	400	3.6	3.0	-55 to 125	VSSOP 8	V62/07612-03NE
SN65LVDS31-EP	Enhanced Product, Quad Differential LVDS Transmitter	Driver	400	3.6	3.0	-55 to 125	SOIC 16	V62/07627/01XE

Part Number	Description	Function	Signaling Speed (Mbps)	Supply Voltage (Max) (V)	Supply Voltage (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN65LVDS33-EP	Enhanced Product, Quad Differential LVDS Receivers	Receiver	400	3.6	3.0	-55 to 125	SOIC 16	V62/05614-01XE
SN65LVDS95-EP	Enhanced Product 21 ch LVDS Serdes Transmitter	Driver	400	3.6	3.0	-40 to 85	TSSOP 48	V62/04643-01XE
SN65LVDT14-EP	Enhanced Product LVDS 4 Channel Receiver and 1 Ch Transmitter	Receiver	125	3.6	3.0	-40 to 125	TSSOP 20	V62/05615-01XE
SN65LVDT41-EP	Enhanced Product LVDS 4 Channel Transmitter and 1 Ch Receiver	Driver	125	3.6	3.0	-40 to 125	TSSOP 20	V62/05615-02XE

RS-232

Table 22. RS-232

Part Number	Description	Drivers per Package	Receivers per Package	Logic Voltage (Min) (V)	Data Rate (Max) (kbps)	Main Supply Voltage (Nom) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
MAX3221-EP	Enhanced Product RS-232 Line Driver/Receiver	1	1	3.3	250	3.3, 5	-55 to 125	SSOP 16	V62/06642-01XE
MAX3223-EP	Enhanced Product Multichannel RS-232 Line Driver/Receiver	2	2	3.3	500	3.3, 5	-55 to 125	SSOP 20	V62/06635-01XE
MAX3232-EP	Enhanced Product Multichannel RS-232 Line Driver/Receiver	2	2	3.3	250	3.3, 5	-55 to 125	SSOP 16, TSSOP 16	V62/06623-01XE, V62/06623-01YE
MAX3243-EP	Enhanced Product Multichannel RS-232 Line Driver/Receiver	3	5	3.3	250	3.3, 5	-55 to 125	SSOP 28, TSSOP 28	V62/06624-01XE, V62/06624-01YE
TRS3253E-EP	Enhanced Product RS-232 Transceiver	3	5	1.8	1000	3.3, 5	-55 to 125	VQFN 32	V62/13621-01XE

RS-485/RS-422

Table 23. RS-485/RS-422

Part Number	Description	Number of TX	Number of RX	Duplex	Number of Nodes	Common Mode Range	Operating Temperature Range (°C)	Package Group	DLA - VID
AM26C31-EP	Enhanced Product Quadruple Differential Line Driver	4	0	Half	32	-7 to 7	-55 to 125	SOIC 16	V62/07647-01XE
AM26C32-EP	Enhanced Product Quadruple Differential Line Receiver	0	4	Half	32	-7 to 7	-55 to 125	SOIC 16	V62/07648-01XE
AM26LV31E-EP	Enhanced Product Low-Voltage High-Speed Quad Differential Line Driver	4	0	Half	32	-7 to 7	-55 to 105	SOIC 16	V62/09602-01XE
AM26LV32E-EP	Enhanced Product Low-Voltage High-Speed Quad Differential Line Receiver	0	4	Half	32	-7 to 7	-55 to 125	SOIC 16	V62/09603-01XE
SN55HVD75-EP	Enhanced Product 3.3-V Supply RS-485	1	1	Half	256	-7 to 12	-55 to 125	SON 8	V62/15608-01XE
SN65HVD01-EP PREVIEW DEVICE Expect availability late 2019	Enhanced Product 3.3-V Supply with 1.65V I/Os RS-485 Transceiver	1	1	Half	256	-7 to 12	-55 to 125	VSON 10	WIP
SN65HVD10-EP	Enhanced Product 3.3-V Rs-485 Transceiver	1	1	Half	64	-7 to 12	-55 to 125	SOIC 8	V62/05604-01XE
SN65HVD12-EP	Enhanced Product 3.3-V Rs-485 Transceiver	1	1	Half	256	-7 to 12	-40 to 85	SOIC 8	V62/05604-03XE
SN65HVD1792-EP	Enhanced Product RS-485 Transceiver With Extended Common-Mode Range	1	1	Full	256	-20 to 25	-40 to 105	SOIC 14	V62/13620-01XE
SN65HVD21M-EP	Enhanced Product Extended Common-Mode Rs-485 Transceivers	1	1	Half	256	-20 to 25	-55 to 125	SOIC 8	V62/06615-01XE
SN65HVD30-EP	Enhanced Product 3.3-V Full-Duplex Rs-485 Driver/Receiver	1	1	Full	256	-7 to 12	-55 to 125	SOIC 8	V62/06634-01XE
SN65HVD33-EP	Enhanced Product 3.3-V Full-Duplex Rs-485 Drivers/Receivers	1	1	Full	64	-7 to 12	-55 to 125	SOIC 14	V62/06634-04YE

Part Number	Description	Number of TX	Number of RX	Duplex	Number of Nodes	Common Mode Range	Operating Temperature Range (°C)	Package Group	DLA - VID
SN65LBC173A-EP	Enhanced Product Quadruple RS-485 Differential Line Receiver	0	4	-	32	-7 to 12	-55 to 125	SOIC 16	V62/13623-02XE
SN65LBC174A-EP	Enhanced Product Quadruple Rs-485 Differential Line Drivers	4	0	-	32	-7 to 12	-55 to 125	SOIC 20, SOIC 16	V62/07611-01XE
SN65LBC175A-EP	Enhanced Product Quadruple RS-485 Differential Line Receivers	0	4	-	32	-7 to 12	-55 to 125	SOIC 16	V62/17603-01XE
SN65LBC176A-EP	Enhanced Product Differential Bus Transceivers	1	1	Half	32	-7 to 12	-55 to 125	SOIC 8	V62/03671-01XE
SN75976A-EP	Enhanced Product 9 Channel Differential Transceiver	9	9	Half	32	-7 to 12	-55 to 125	TSSOP 56	V62/08614-01XE
UA9638C-EP	Enhanced Product Dual High-Speed Differential Line Driver	2	0	-	32	-7 to 7	-40 to 85	SOIC 8	V62/12606-01XE

UART

Table 24. UART

Part Number	Description	Number of Channels (#)	FIFOs (Bytes)	Rx FIFO Trigger Levels (#)	Tx FIFO Trigger Levels (#)	Operating Temperature Range (°C)	Package Group	DLA - VID
TL16C752B-EP	Enhanced Product 3.3 V Dual UART	2	64	16	16	-55 to 110	LQFP 48	V62/03626-01XE

1394

Table 25. 1394

Part Number	Description	Die Revision	Version of 1394	Speed (Mb/s)	Operating Temperature Range (°C)	Package Group	DLA - VID
TSB12LV26-EP	Enhanced Product IEEE 1394 PCI Link-Layer Controller	-	1394-1995	100, 200, 400	-40 to 105	LQFP 100	V62/03627-01XE
TSB12LV32-EP	Enhanced Product IEEE 1394 Generic Link-Layer Controller	-	1394-1995, 1394a-2000	100, 200, 400	-40 to 105	LQFP 100	V62/03622-01XE
TSB41BA3A-EP	Enhanced Product IEEE 1394 Three-Port Cable Transceiver/Arbiter (Phy)	A	1394-1995, 1394a-2000, 1394b-2002	100, 200, 400	-40 to 105	HTQFP 80	V62/03670-02XE
TSB41BA3B-EP	Enhanced Product IEEE 1394 Three-Port Cable Transceiver/Arbiter (Phy)	B	1394-1995, 1394a-2000, 1394b-2002	100, 200, 400	-40 to 105	HTQFP 80	V62/03670-03XE
TSB41BA3F-EP PREVIEW PRODUCT Expect availability early 2020	Enhanced Product IEEE 1394 Three-Port Cable Transceiver/Arbiter (Phy)	F	1394-1995, 1394a-2000, 1394b-2002	100, 200, 400	-40 to 125	HTQFP 80	WIP
TSB82AF15-EP PREVIEW PRODUCT Expect availability early 2020	Enhanced Product IEEE 1394 PCI Express Link-Layer Controller	-	1394-1995, 1394a-2000, 1394b-2002	100, 200, 400	-40 to 125	QFP 144	WIP

Isolation

- [Digital Isolators](#) •
- [Isolated Gate Drivers](#) •

Digital Isolators

Table 26. Digital Isolators

Part Number	Description	Number of Channels (#)	Forward/Reverse Channels	Isolation Rating (Vrms)	Surge Voltage Capability (Vpk)	Data Rate (Max) (Mbps)	Operating Temperature Range (°C)	Package Group	DLA - VID
ISO721M-EP	Enhanced Product Single 150Mbps 1/0 Digital Isolator	1	1/0	2500	4000	150	-55 to 125	SOIC 8	V62/08627-01 XE
ISO7241A-EP	Enhanced Product, Quad Channel, 3/1, 1Mbps, Digital Isolator	4	3/1	2500	4000	1	-55 to 125	SOIC 16	V62/10606-01 XE
ISO7421-EP	Enhanced Product, Low-Power Dual 1/1 Digital Isolator	2	1/1	2500	4000	1	-55 to 125	SOIC 8	V62/16605-01 XE

Isolated Gate Drivers

Table 27. Isolated Gate Drivers

Part Number	Description	Number of Channels (#)	Peak Output Current (A)	Input VCC (Min) (V)	Input VCC (Max) (V)	Input Threshold	Operating Temperature Range (°C)	Package Group	DLA - VID
ISO5852S-EP	Enhanced Product High-CMTI 2.5-A / 5-A Isolated IGBT, MOSFET Gate Driver	1	5	2.25	5.5	CMOS	-55 to 125	SOIC 16	V62/16623-01X E

Logic

- Voltage Level Translation** •
- Buffer/Driver** •
- Transceivers** •
- Gates** •
- Flip-Flop/Latch/Register** •
- Speciality Logic** •
- Universal Bus Function** •

Voltage Level Translation

Table 28. Voltage Level Translation

Part Number	Description	SubFamily	Technology Family	Bits (#)	VCC (Min) (V)	VCC (Max) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
CD4504B-EP	CMOS Hex Voltage-Level Shifter for TTL-to-CMOS or CMOS-to-CMOS Operation	Unidirectional voltage translation	CD4000	6	3	18	-55 to 125	TSSOP 16	V62/09606-01XE
SN74ALVC164245-EP	Enhanced Product 16-Bit 2.5-V To 3.3-V/3.3-V To 5-V Level Shifting Transceiver, 3-State	Direction controlled voltage translation	ALVC	16	2.3	5.5	-55 to 125	SSOP 48, TSSOP 48	V62/05612-01XE
SN74AVCB164245-EP	Enhanced Product 16-Bit Dual-Supply Bus Transceiver w/ configurable translation and 3-state outputs	Direction controlled voltage translation	AVC	16	1.4	3.6	-55 to 125	TSSOP 48	V62/13602-01XE
SN74AVCH4T245-EP	Enhanced Product 4-Bit Dual-Supply Bus Transc. w/ Configurable Voltage Transc. and 3-State Outputs	Direction controlled voltage translation	AVC	4	1.2	3.6	-55 to 125	UQFN 16	V62/09618-01XE
SN74LVC16T245-EP	Enhanced Product 16-Bit Dual-Supply Bus Transceiver	Direction controlled voltage translation	LVC	16	1.65	5.5	-55 to 125	TSSOP 48	V62/12667-01XE
SN74LVC1T45-EP	Enhanced Product Single-Bit Dual-Supply Bus Transc., Configurable Voltage Transl., 3-State Outputs	Direction controlled voltage translation	LVC	1	1.65	5.5	-55 to 125	SC70 6	V62/09608-01XE
SN74LVC2T45-EP	Enhanced Product Dual-Bit Dual Supply Transceiver w/ Configurable Voltage Transl., 3-State Outputs	Direction controlled voltage translation	LVC	2	1.65	5.5	-55 to 125	SM8 8	V62/09604-01XE
SN74LVC4245A-EP	Enhanced Product Octal Bus Transceiver And 3.3-V To 5-V Shifter With 3-State Outputs	Direction controlled voltage translation	LVC	8	2.7	5.5	-40 to 85	TSSOP 24	V62/04664-01XE
SN74LVC8T245-EP	Enhanced Product 8-Bit Dual-Supply Bus Transc. w/ Configurable Voltage Transl., and 3-State Outputs	Direction controlled voltage translation	LVC	8	1.65	5.5	-55 to 125	SOIC 24, TSSOP 24, VQFN 24	V62/09615-01XE V62/09615-01YE
SN74LVCC3245A-EP	Enhanced Product Octal Bus Transceiver With Adjustable Output Voltage And 3-State Outputs	Direction controlled voltage translation	LVC	8	2.3	5.5	-40 to 85	SOIC 24, SSOP 24, TSSOP 24	V62/05602-01XE V62/05602-01YE V62/05602-01ZE
SN74LVCC4245A-EP	Enhanced Product Octal Dual-Supply Bus Transceiver W/ Configurable Output Voltage And 3S Out	Direction controlled voltage translation	LVC	8	2.7	5.5	-40 to 85	TSSOP 24	V62/06658-01XE
SN74LVCH16T245-EP	Enhanced Product 16-Bit Dual-Supply Bus Transc., Configurable Voltage Translation, 3-State Outputs	Direction controlled voltage translation	LVC	16	1.65	5.5	-55 to 125	TSSOP 48, TVSOP 48	V62/09605-01XE V62/09605-01YE

Buffer/Driver

Table 29. Buffer/Driver

Part Number	Description	SubFamily	Bits (#)	VCC (Min) (V)	VCC (Max) (V)	ICC at Nom Voltage (Max) (mA)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74ABT244A-EP	Enhanced Product Octal Buffers/ Drivers With 3-State Outputs	Non-Inverting buffer/driver	8	4.5	5.5	0.25	-55 to 125	SSOP 20	V62/06667-01XE
SN74ABT541B-EP	Enhanced Product Octal Buffers/ Drivers	Non-Inverting buffer/driver	8	4.5	5.5	0.25	-40 to 85	TSSOP 20	V62/04700-01XE
SN74AC04-EP	Enhanced Product Hex Inverters	Inverting buffer/driver	6	2	6	0.02	-55 to 125	SOIC 14	V62/04614-01XE
SN74AC244-EP	Enhanced Product Octal Buffers/ Drivers	Non-Inverting buffer/driver	8	2	6	0.08	-55 to 125	SOIC 20, SO 20	V62/04622-01XE
SN74ACT04-EP	Enhanced Product Hex Inverters	Inverting buffer/driver	6	4.5	5.5	0.02	-40 to 85	SOIC 14	V62/04758-01XE
SN74ACT16245-EP	Enhanced Product 16-Bit Bus Transceiver With 3-State Outputs	Inverting buffer/driver	16	4.5	5.5		-40 to 125	SSOP 48	V62/03601-01XE

Part Number	Description	SubFamily	Bits (#)	VCC (Min) (V)	VCC (Max) (V)	ICC at Nom Voltage (Max) (mA)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74ACT16373-EP	Enhanced Product 16-Bit D-Type Transparent Latch	Inverting buffer/driver	16	4.5	5.5	0.16	-40 to 125	SSOP 48	V62/03602-01XE
SN74ACT16374-EP	Enhanced Product 16-Bit D-Type Edge-Triggered Flip-Flop With 3-State Outputs	Inverting buffer/driver	16	4.5	5.5	0.16	-40 to 125	SSOP 48	V62/03603-01XE
SN74ACT244-EP	Enhanced Product Octal Buffers/Drivers	Non-Inverting buffer/driver	8	4.5	5.5	0.04	-55 to 125	SOIC 20, SO 20	V62/04620-01XE
SN74AHC04-EP	Enhanced Product Hex Inverters	Inverting buffer/driver	6	2	5.5	0.02	-55 to 125	SOIC 14, TSSOP 14	V62/03646-01Y E, V62/03646-01XE
SN74AHC125-EP	Enhanced Product Quadruple Bus Buffer Gates With 3-State Outputs	Non-Inverting buffer/driver	4	2	5.5	0.04	-55 to 125	SOIC 14, TSSOP 14	V62/03648-01Y E, V62/03648-01XE
SN74AHC14-EP	Enhanced Product Hex Schmitt-Trigger Inverters	Inverting buffer/driver	6	2	5.5	0.02	-55 to 125	SOIC 14, TSSOP 14	V62/03605-01Y E, V62/03605-01XE
SN74AHC1G126-EP	Enhanced Product Single Bus Buffer Gate With 3-State Output	Non-Inverting buffer/driver	1	2	5.5	0.01	-55 to 125	SC70 5	V62/14605-01XE
SN74AHC244-EP	Enhanced Product Octal Buffers/Drivers With 3-State Outputs	Non-Inverting buffer/driver	8	2	5.5	0.04	-55 to 125	SOIC 20, TSSOP 20	V62/03649-01Y E, V62/03649-01XE
SN74AHCT125-EP	Enhanced Product Quadruple Bus Buffer Gates With 3-State Outputs	Non-Inverting buffer/driver	4	4.5	5.5	0.02	-40 to 125	SOIC 14, TSSOP 14	V62/04683-01Y E, V62/04683-01XE
SN74AHCT126-EP	Enhanced Product Quadruple Bus Buffer Gates With 3-State Outputs	Non-Inverting buffer/driver	4	4.5	5.5	0.02	-40 to 125	SOIC 14, TSSOP 14	V62/04684-01Y E, V62/04684-01XE
SN74AHCT14-EP	Enhanced Product Hex Schmitt-Trigger Inverters	Inverting buffer/driver	6	4.5	5.5	0.02	-55 to 125	SOIC 14, TSSOP 14	V62/03605-01Y E, V62/03605-01XE
SN74AHCT244-EP	Enhanced Product Octal Buffers/Drivers With 3-State Outputs	Non-Inverting buffer/driver	8	4.5	5.5	0.04	-55 to 125	SOIC 20, TSSOP 20	V62/03657-01Y E, V62/03657-01XE
SN74AHCT541-EP	Enhanced Product Octal Buffers/Drivers With 3-State Outputs	Non-Inverting buffer/driver	8	4.5	5.5	0.02	-40 to 85	SOIC 20	V62/04761-01XE
SN74AHCU04-EP	Enhanced Product Hex Inverter	Inverting buffer/driver	6	2	5.5	0.02	-55 to 125	TSSOP 14	V62/07619-01XE
SN74ALVC244-EP	Enhanced Product Octal Buffer/Driver With 3-State Outputs	Non-Inverting buffer/driver	8	1.65	3.6	0.024	-40 to 85	TSSOP 20	V62/04762-01XE
SN74AUC1G125-EP	Enhanced Product Single Bus Buffer Gate With 3-State Output	Non-Inverting buffer/driver	1	0.8	2.7	0.01	-55 to 125	SC70 5	V62/06656-01XE
SN74AUC1G14-EP	Enhanced Product Single Schmitt-Trigger Inverter	Non-Inverting buffer/driver	1	0.8	2.7	0.01	-55 to 125	SOT-23 5	V62/06678-01XE
SN74AUP1G17-EP	Enhanced Product Low-Power Single Schmitt-Trigger Buffer	Non-Inverting buffer/driver	1	0.8	3.6	0.0009	-55 to 125	SC70 5	V62/07623-01XE
SN74BCT760-EP	Enhanced Product Octal Buffer/Driver With Open-Collector Outputs	Non-Inverting buffer/driver	8	-0.5	7	0.076	-55 to 125	SOIC 20	V62/06672-01XE
SN74HC244-EP	Enhanced Product Octal Buffers And Line Drivers With 3-State Outputs	Non-Inverting buffer/driver	8	2	6	0.08	-55 to 125	SOIC 20, TSSOP 20	V62/03607-01Y E, V62/03607-02XE
SN74HCT04-EP	Enhanced Product Hex Inverter	Inverting buffer/driver	6	4.5	5.5	0.02	-40 to 85	SOIC 14	V62/04697-01XE
SN74HCT244-EP	Enhanced Product Octal Buffers And Line Drivers With 3-State Outputs	Non-Inverting buffer/driver	8	4.5	5.5	0.08	-40 to 125	TSSOP 20	V62/04698-01XE
SN74LV04A-EP	Enhanced Product Hex Inverters	Inverting buffer/driver	6	2	5.5	0.02	-40 to 105	TSSOP 14	V62/04691-01XE
SN74LV14A-EP	Enhanced Product Hex Schmitt-Trigger Inverters	Inverting buffer/driver	6	2	5.5	0.02	-55 to 125	SOIC 14, TSSOP 14	V62/03662-01Y E, V62/03662-02Y E, V62/03662-02XE
SN74LV244A-EP	Enhanced Product Octal Buffers/Drivers With 3-State Outputs	Non-Inverting buffer/driver	8	2	5.5	0.02	-55 to 125	SOIC 20	V62/06604-01XE

Part Number	Description	SubFamily	Bits (#)	VCC (Min) (V)	VCC (Max) (V)	ICC at Nom Voltage (Max) (mA)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74LVC04A-EP	Enhanced Product Hex Inverter	Inverting buffer/driver	6	2	3.6	0.01	-40 to 125	SOIC 14, TSSOP 14	V62/04653-01XE V62/04653-01YE
SN74LVC06A-EP	Enhanced Product Hex Inverter Buffers/Drivers With Open-Drain Outputs	Inverting buffer/driver	6	1.65	3.6	0.04	-55 to 125	SOIC 14	V62/06661-01XA
SN74LVC07A-EP	Enhanced Product Hex Buffer/Driver With Open-Drain Outputs	Non-Inverting buffer/driver	10	1.65	5.5	0.01	-55 to 125	TSSOP 14	V62/04654-01XE
SN74LVC125A-EP	Enhanced Product Quadruple Bus Buffer Gate With 3-State Outputs	Non-Inverting buffer/driver	4	1.65	3.6	0.01	-55 to 125	SOIC 14, TSSOP 14	V62/04656-01XE
SN74LVC14A-EP	Enhanced Product Hex Schmitt-Trigger Inverter	Inverting buffer/driver	6	2	3.6	0.01	-40 to 125	SOIC 14, TSSOP 14	V62/04658-01XE V62/04658-01YE
SN74LVC16244A-EP	Enhanced Product 16-Bit Buffer/Driver With 3-State Outputs	Non-Inverting buffer/driver	16	1.65	3.6	0.02	-40 to 85	TSSOP 48	V62/04724-01XE
SN74LVC1G04-EP	Enhanced Product Single Inverter Gate	Non-Inverting buffer/driver	1	1.65	5.5	0.01	-55 to 125	SOT-23 5	V62/07625-01XE
SN74LVC1G06-EP	Enhanced Product Single Inverter Buffer/Driver With Open-Drain Output	Non-Inverting buffer/driver	1	1.65	5.5	0.01	-55 to 125	SC70 5	V62/06655-01XE
SN74LVC1G07-EP	Enhanced Product Single Buffer/Driver With Open-Drain Output	Non-Inverting buffer/driver	1	1.65	5.5	0.01	-55 to 125	SC70 5	V62/07645-01XE
SN74LVC1G125-EP	Enhanced Product Single Bus Buffer Gate With 3-State Outputs	Non-Inverting buffer/driver	1	1.65	5.5	0.01	-55 to 125	SC70 5	V62/04735-01XE
SN74LVC1G126-EP	Enhanced Product Single Bus Buffer Gate	Non-Inverting buffer/driver	1	1.65	5.5	0.01	-40 to 85	SC70 5	V62/04736-01XE
SN74LVC1G14-EP	Enhanced Product Single Schmitt-Trigger Inverter	Non-Inverting buffer/driver	1	1.65	5.5	0.019	-55 to 125	SOT-23 5	V62/07626-01XE
SN74LVC1G17-EP	Enhanced Product Single Schmitt-Trigger Buffer	Non-Inverting buffer/driver	1	1.65	6.5	0.01	-55 to 125	SC70 5, SOT-23 5	V62/06621-01XE
SN74LVC1GX04-EP	Enhanced Product Crystal Oscillator Driver	Non-Inverting buffer/driver	1	1.65	5.5	0.01	-55 to 125	SOT-5X3 6	V62/07632-01XE
SN74LVC2G04-EP	Enhanced Product Dual Inverter Gate	Non-Inverting buffer/driver	2	1.65	5.5	0.01	-55 to 125	SC70 6	V62/06632-01XE
SN74LVC2G06-EP	Enhanced Product Dual Inverter Buffer/Driver With Open-Drain Output	Non-Inverting buffer/driver	2	1.65	5.5	0.01	-55 to 125	SC70 6	V62/06640-01XE
SN74LVC2G07-EP	Enhanced Product Dual Buffer/Driver with Open-Drain Output	Non-Inverting buffer/driver	2	1.65	5.5	0.01	-55 to 125	SC70 6	V62/08616-01XE
SN74LVC2G126-EP	Enhanced Product Dual Bus Buffer Gate w/3-State Outputs	Non-Inverting buffer/driver	2	1.65	5.5	0.01	-55 to 125	VSSOP 8	V62/14604-01XE
SN74LVC2G17-EP	Enhanced Product Dual Schmitt-Trigger Buffer	Non-Inverting buffer/driver	2	1.65	5.5	0.01	-55 to 125	SC70 6	V62/07617-01XE
SN74LVC2G34-EP	Enhanced Product Dual Buffer Gate	Non-Inverting buffer/driver	2	1.65	5.5	0.01	-55 to 125	SC70 6	V62/06659-01XE
SN74LVC3G07-EP	Enhanced Product Triple Buffer/Driver With Open-Drain Output	Inverting buffer/driver	3	1.65	5.5	0.01	-55 to 125	VSSOP 8	V62/09610-01XE
SN74LVC540A-EP	Enhanced Product Octal Buffer/Driver With 3-State Outputs	Inverting buffer/driver	8	2	3.6	0.01	-40 to 125	SOIC 20, TSSOP 20	V62/04665-01XE V62/04665-01YE
SN74LVC541A-EP	Enhanced Product Octal Buffer/Driver With 3-State Outputs	Non-Inverting buffer/driver	8	2	3.6	0.01	-40 to 125	SOIC 20, TSSOP 20	V62/04666-01XE V62/04666-01YE
SN74LVT125-EP	Enhanced Product 3.3-V Abt Quadruple Bus Buffers	Non-Inverting buffer/driver	4	2.7	3.6	0.007	-40 to 125	TSSOP 14	V62/04705-01XE
SN74LVTH125-EP	Enhanced Product 3.3-V Abt Quadruple Bus Buffers	Non-Inverting buffer/driver	4	2.7	3.6	0.007	-40 to 85	TSSOP 14	V62/04671-01XE
SN74LVTH162244-EP	Enhanced Product 3.3-V Abt 16-Bit Buffers/Drivers With 3-State	Non-Inverting buffer/driver	16	2.7	3.6	0.005	-40 to 85	TSSOP 48	V62/04708-01XE
SN74LVTH16244A-EP	Enhanced Product 3.3-V Abt 16-Bit Buffer/Driver With 3-State	Non-Inverting buffer/driver	16	2.7	3.6	0.005	-55 to 125	SSOP 48, TSSOP 48, TVSOP 48	V62/04601-01XE
SN74LVTH244A-EP	Enhanced Product 3.3-V Abt Octal Buffers/Drivers	Non-Inverting buffer/driver	8	2.7	3.6	0.005	-40 to 125	SSOP 20, TSSOP 20	V62/03667-01XE

Transceivers

Table 30. Transceivers

Part Number	Description	SubFamily	Bits (#)	VCC (Min) (V)	VCC (Max) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74ABT16245A-EP	Enhanced Product 16-Bit Bus Transceiver	Standard transceiver	16	4.5	5.5	-55 to 125	SSOP 48	V62/06609-01XE
SN74ABT245B-EP	Enhanced Product Octal Bus Transceivers	Standard transceiver	8	4.5	5.5	-55 to 125	SSOP 20	V62/04738-01XE
SN74AC245-EP	Enhanced Product Octal Bus Transceivers	Standard transceiver	8	2	6	-40 to 85	SOIC 20	V62/04760-01XE
SN74AHC245-EP	Enhanced Product Octal Bus Transceivers	Standard transceiver	8	2	5.5	-55 to 125	SOIC 20, TSSOP 20	V62/03650-01XE
SN74ALVCH16245-EP	Enhanced Product 16-Bit Bus Transceiver	Standard transceiver	16	1.65	3.6	-55 to 125	SSOP 48	V62/04763-01XE
SN74LVC245A-EP	Enhanced Product Octal Bus Transceiver	Standard transceiver	8	1.65	3.6	-40 to 85	TSSOP 20	V62/04737-01XE
SN74LVTH162245-EP	Enhanced Product 3.3-V Abt 16-Bit Bus Transceivers	Standard transceiver	16	2.7	3.6	-55 to 125	SSOP 48, TSSOP 48	V62/04709-01XE
SN74LVTH16245A-EP	Enhanced Product 3.3-V Abt 16-Bit Bus Transceivers	Standard transceiver	16	2.7	3.6	-55 to 125	SSOP 48, TSSOP 48	V62/04602-01YE
SN74LVTH16543-EP	Enhanced Product 3.3-V Abt 16-Bit Registered Transceiver	Registered transceiver	16	2.7	3.6	-55 to 125	SSOP 56, TSSOP 56	V62/04715-01XE
SN74LVTH16652-EP	Enhanced Product 3.3 V Abt 16-Bit Bus Transceivers And Registers	Registered transceiver	16	2.7	3.6	-40 to 85	TSSOP 56	V62/04717-01XE
SN74LVTH245A-EP	Enhanced Product 3.3-V Abt Octal Bus Transceiver	Standard transceiver	8	2.7	3.6	-55 to 125	SSOP 20, TSSOP 20	V62/04723-01XE
SN74LVTH543-EP	Enhanced Product 3.3-V Abt Octal Registered Transceivers	Registered transceiver	8	2.7	3.6	-40 to 85	TSSOP 24	V62/04677-01XE

Gates

Table 31. Gates

Part Number	Description	SubFamily	Channels (#)	Inputs per Channel	VCC (Min) (V)	VCC (Max) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
CD74ACT86-EP	Enhanced Product Quad 2-Input Exclusive-Or Gate	XOR (exclusive OR) gate	4	2	4.5	5.5	-55 to 125	SOIC 14	V62/06620-01XE
CD74HC08-EP	Enhanced Product Quadruple 2-Input Positive-And Gates	AND gate	4	2	2	6	-40 to 125	SOIC 14	V62/04704-01XE
SN74AC08-EP	Enhanced Product Quadruple 2-Input Positive-And Gates	AND gate	4	2	2	6	-55 to 125	SOIC 14	V62/04615-01XE
SN74AC11-EP	Enhanced Product Triple 3-Input Positive-And Gates	AND gate	3	3	2	6	-40 to 85	TSSOP 14	V62/04701-01XE
SN74AC32-EP	Enhanced Product Quadruple 2-Input Positive-Or Gates	OR gate	4	2	2	6	-55 to 125	SOIC 14	V62/04616-01XE
SN74ACT08-EP	Enhanced Product Quadruple 2-Input Positive-And Gates	AND gate	4	2	4.5	5.5	-40 to 85	SOIC 14	V62/04759-01XE
SN74AHC00-EP	Enhanced Product Quadruple 2-Input Positive-Nand Gates	NAND gate	4	2	2	5.5	-55 to 125	SOIC 14, TSSOP 14	V62/03604-01XE, V62/03604-01YE
SN74AHC02-EP	Enhanced Product Quadruple 2-Input Positive-Nor Gates	NOR gate	4	2	2	5.5	-55 to 125	TSSOP 14	V62/03645-01XE
SN74AHC08-EP	Enhanced Product Quadruple 2-Input Positive-And Gates	AND gate	4	2	2	5.5	-55 to 125	SOIC 14, TSSOP 14	V62/03647-01XE, V62/03647-01YE
SN74AHC1G02-EP	Enhanced Product Single 2 Input Positive Nor Gate	NOR gate	1	2	2	5.5	-55 to 125	SC70 5	V62/08611-01XE
SN74AHC1G86-EP	Enhanced Product Single 2 Input Exclusive Or Gate	XOR (exclusive OR) gate	1	2	2	5.5	-55 to 125	SC70 5	V62/08612-01XE
SN74AHC32-EP	Enhanced Product Quadruple 2-Input Positive-Or Gates	OR gate	4	2	2	5.5	-55 to 125	SOIC 14, TSSOP 14	V62/03651-01XE, V62/03651-01YE

Part Number	Description	SubFamily	Channels (#)	Inputs per Channel	VCC (Min) (V)	VCC (Max) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74AHCT00-EP	Enhanced Product Quadruple 2-Input Positive-Nand Gates	NAND gate	4	2	4.5	5.5	-55 to 125	SOIC 14, TSSOP 14	V62/03653-01Y E, V62/03653-01X E
SN74AHCT08-EP	Enhanced Product Quadruple 2-Input Positive-And Gates	AND gate	4	2	4.5	5.5	-55 to 125	SOIC 14, TSSOP 14	V62/03654-01Y E, V62/03654-01X E
SN74AHCT32-EP	Enhanced Product Quadruple 2-Input Positive-Or Gates	OR gate	4	2	4.5	5.5	-55 to 125	SOIC 14, TSSOP 14	V62/03658-01Y E, V62/03658-01X E
SN74ALVC00-EP	Enhanced Product Quadruple 2-Input Positive-Nand Gate	NAND gate	4	2	1.65	3.6	-40 to 85	SOIC 14	V62/04685-01X E
SN74ALVC08-EP	Enhanced Product Quadruple 2-Input Positive-And Gate	AND gate	4	2	1.65	3.6	-40 to 85	SOIC 14	V62/04686-01X E
SN74HC02-EP	Enhanced Product Quadruple 2-Input Positive-Nor Gates	NOR gate	4	2	2	6	-40 to 125	TSSOP 14	V62/04687-02Y E
SN74HC10-EP	Enhanced Product Triple 3-Input Positive-Nand Gates	NAND gate	3	3	2	6	-40 to 125	SOIC 14, TSSOP 14	V62/04688-01X E, V62/04688-01Y E
SN74LV08A-EP	Enhanced Product Quadruple 2-Input Positive-And Gates	AND gate	4	2	2	5.5	-55 to 125	TSSOP 14	V62/03660-01X E
SN74LV11A-EP	Enhanced Product Triple 3-Input Positive-And Gates	AND gate	3	3	2	5.5	-40 to 105	TSSOP 14	V62/04692-01X E
SN74LV32A-EP	Enhanced Product Quadruple 2-Input Positive-Or Gates	OR gate	4	2	2	5.5	-55 to 125	TSSOP 14	V62/04693-01X E
SN74LV86A-EP	Enhanced Product Quadruple 2-Input Exclusive-Or Gates	XOR (exclusive OR) gate	4	2	2	5.5	-40 to 105	TSSOP 14	V62/04694-01X E
SN74LVC00A-EP	Enhanced Product Quadruple 2-Input Positive-Nand Gate	NAND gate	4	2	2	3.6	-55 to 125	SOIC 14, TSSOP 14	V62/04652-01X E
SN74LVC02A-EP	Enhanced Product Quadruple 2-Input Positive-Nor Gate	NOR gate	4	2	2	3.6	-55 to 125	TSSOP 14	V62/06660-01X E
SN74LVC08A-EP	Enhanced Product Quadruple 2-Input Positive-And Gate	AND gate	4	2	2	3.6	-55 to 125	SOIC 14, TSSOP 14	V62/04655-01X E
SN74LVC1G00-EP	Enhanced Product Single 2-Input Positive-Nand Gate	NAND gate	1	1	1.65	5.5	-55 to 125	SC70 5, SOT-23 5	V62/04732-01X E
SN74LVC1G02-EP	Enhanced Product Single 2-Input Positive-Nor Gate	NOR gate	1	2	1.65	5.5	-55 to 125	SC70 5	V62/06631-01X E
SN74LVC1G08-EP	Enhanced Product Single 2-Input Positive-And Gate	AND gate	1	2	1.65	5.5	-55 to 125	SC70 5, SOT-23 5	V62/04733-01X E
SN74LVC1G11-EP	Enhanced Product Single 3-Input Positive AND Gate	AND gate	1	3	1.65	5.5	-55 to 125	SC70 6	V62/09621-01X E
SN74LVC1G3208-EP	Enhanced Product Single 3-Input Positive OR-AND Gate	Configurable gate	1	3	1.65	5.5	-55 to 125	SOT-23 6	V62/13605-01X E
SN74LVC1G32-EP	Enhanced Product Single 2-Input Positive-Or Gate	OR gate	1	2	1.65	5.5	-55 to 125	SC70 5, SOT-23 5	V62/04734-01X E
SN74LVC1G86-EP	Enhanced Product Single 2-Input Exclusive-Or Gate	XOR (exclusive OR) gate	1	2	1.65	5.5	-55 to 125	SC70 5	V62/06666-01X E
SN74LVC1G97-EP	Enhanced Product Configurable Multiple-Function Gate	Configurable gate	1	1	1.65	5.5	-40 to 85	SC70 6	V62/03642-01X E
SN74LVC1G98-EP	Enhanced Product Configurable Multiple-Function Gate	Configurable gate	1	1	1.65	5.5	-40 to 85	SC70 6	V62/03641-01X E
SN74LVC2G00W-EP	Enhanced Product Dual 2-Input Positive-Nand Gate	NAND gate	2	2	1.65	5.5	-55 to 115	SM8 8	V62/05623-01X E
SN74LVC2G02-EP	Enhanced Product Dual 2-Input Positive-Nor Gate	NOR gate	2	2	1.65	5.5	-55 to 125	VSSOP 8	V62/07637-01X E
SN74LVC2G08-EP	Enhanced Product Dual 2-Input Positive-And Gate	AND gate	2	2	1.65	5.5	-55 to 125	VSSOP 8	V62/07631-01X E
SN74LVC2G32-EP	Enhanced Product Dual 2-Input Positive-Or Gate	OR gate	2	2	1.65	5.5	-55 to 125	VSSOP 8	V62/06630-01X E
SN74LVC32A-EP	Enhanced Product Quadruple 2-Input Positive-Or Gate	OR gate	4	2	2	3.6	-55 to 125	SOIC 14, TSSOP 14	V62/04661-01X E
SN74LVC86A-EP	Enhanced Product Quadruple 2-Input Exclusive-Or Gate	XOR (exclusive OR) gate	4	2	2	3.6	-55 to 125	SOIC 14, TSSOP 14	V62/04670-01X E

Flip-Flop/Latch/Register

Table 32. Flip-Flop/Latch/Register

Part Number	Description	SubFamily	VCC (Min) (V)	VCC (Max) (V)	Bits (#)	3-state Output	Operating Temperature Range (°C)	Package Group	DLA - VID
CD74HCT574-EP	Enhanced Product High Speed Cmos Logic Octal Positive-Edge-Triggered D-Type Flip-Flops With	D-type flip-flop	4.5	5.5	8	Yes	-40 to 125	SOIC 20, TSSOP 20	V62/04739-01X E V62/04739-01Y E
SN74ABT16373A-EP	Enhanced Product 16-Bit Transparent D-Type Latches With 3-State Outputs	D-type latch	4.5	5.5	16	Yes	-55 to 125	SSOP 48	V62/06628-01X E
SN74AC373-EP	Enhanced Product Octal D-Type Transparent Latches	D-type latch	2	6	8	Yes	-55 to 125	SOIC 20	V62/04621-01X E
SN74AC74-EP	Enhanced Product Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset	D-type flip-flop	2	6	2	No	-55 to 125	SOIC 14	V62/04617-01X E
SN74ACT373-EP	Enhanced Product Octal D-Type Transparent Latches	D-type latch	4.5	5.5	8	Yes	-55 to 125	SOIC 20	V62/04619-01X E
SN74ACT74-EP	Enhanced Product Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset	D-type flip-flop	4.5	5.5	2	No	-55 to 125	SOIC 14	V62/04725-01X E
SN74AHC74-EP	Enhanced Product Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset	D-type flip-flop	2	5.5	2	No	-55 to 125	SOIC 14, TSSOP 14	V62/03652-01Y E
SN74AHCT74-EP	Enhanced Product Dual Positive-Edge-Triggered D-Type Flip-Flop With Clear And Preset	D-type flip-flop	4.5	5.5	2	No	-55 to 125	SOIC 14, TSSOP 14	V62/03659-01X E
SN74HC165-EP	Enhanced Product 8-Bit Parallel-Load Shift Registers	Shift register	2	6	8	No	-40 to 125	TSSOP 16	V62/04689-01Y E
SN74HC166A-EP	Enhanced Product 8-Bit Parallel-Load Shift Registers	Shift register	2	6	8	No	-40 to 85	SOIC 16	V62/04690-01X E
SN74HC595-EP	Enhanced Product 8-Bit Shift Registers With 3-State	Shift register	2	6	8	Yes	-55 to 125	TSSOP 16	V62/10612-01X E
SN74HC74-EP	Enhanced Product Dual D-Type Positive Edge Triggered Flip Flop With Clear And Preset	D-type flip-flop	2	6	2	No	-55 to 125	TSSOP 14	V62/08613-01X E
SN74LV165A-EP	Enhanced Product Parallel-Load 8-Bit Shift Registers	Shift register	2	5.5	8	No	-55 to 125	TSSOP 16	V62/06603-01X E
SN74LV374A-EP	Enhanced Product Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	D-type flip-flop	2	5.5	8	Yes	-40 to 105	TSSOP 20	V62/03663-01X E
SN74LV595A-EP	Enhanced Product 8-Bit Shift Registers With 3-State	Shift register	2	5.5	8	Yes	-40 to 85	TSSOP 16	V62/04696-01X E
SN74LV74A-EP	Enhanced Product Dual Positive-Edge-Triggered D-Type Flip-Flops	D-type flip-flop	2	5.5	2	No	-55 to 125	TSSOP 14	V62/06605-01X E
SN74LVC16373A-EP	Enhanced Product 16-Bit Transparent D-Type Latch With 3-State Outputs	D-type latch	1.65	3.6	16	Yes	-55 to 125	SSOP 48	V62/06649-01X E
SN74LVC1G175-EP	Enhanced Product Single D-Type Flip-Flop With Asynchronous Clear	D-type flip-flop	1.65	5.5	1	No	-55 to 125	SC70 6	V62/06633-01X E
SN74LVC1G79-EP	Enhanced Product Positive-Edge-Triggered D-Type Flip-Flop	D-type flip-flop	1.65	5.5	1	No	-55 to 115	SC70 5	V62/05621-01X E
SN74LVC2G74-EP	Enhanced Product Single Positive Edge Triggered D-Type Flip-Flop With Clear And Preset	D-type flip-flop	1.65	5.5	1	No	-55 to 125	VSSOP 8	V62/08617-01X E
SN74LVC373A-EP	Enhanced Product Octal Transparent D-Type Latch With 3-State Outputs	D-type latch	2	3.6	8	Yes	-55 to 125	SSOP 20, TSSOP 20	V62/04662-01Y E
SN74LVC374A-EP	Enhanced Product Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	D-type flip-flop	2	3.6	8	Yes	-40 to 125	TSSOP 20	V62/04663-01Y E
SN74LVC573A-EP	Enhanced Product Octal Transparent D-Type Latches With 3-State Outputs	D-type latch	2	3.6	8	Yes	-40 to 125	TSSOP 20	V62/04667-01Y E
SN74LVC574A-EP	Enhanced Product Octal Edge-Triggered D-Type Flip-Flop With 3-State Outputs	D-type flip-flop	2	3.6	8	Yes	-40 to 125	TSSOP 20	V62/04668-01Y E
SN74LVC74A-EP	Enhanced Product Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset	D-type flip-flop	2	3.6	2	No	-55 to 125	SOIC 14, TSSOP 14	V62/04669-01X E

Part Number	Description	SubFamily	VCC (Min) (V)	VCC (Max) (V)	Bits (#)	3-state Output	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74LVTH162373-EP	Enhanced Product 3.3-V Abt 16-Bit Transparent D-Type Latches With 3-State Outputs	D-type latch	2.7	3.6	16	Yes	-55 to 125	SSOP 48	V62/06654-01X E
SN74LVTH16373-EP	Enhanced Product 3.3-V Abt 16-Bit Transparent D-Type Latches With 3-State Outputs	D-type latch	2.7	3.6	16	Yes	-55 to 125	uBGA 56, SSOP 48, TSSOP 48	V62/04712-01X E
SN74LVTH16374-EP	Enhanced Product 3.3-V Abt 16-Bit Edge-Triggered D-Type Flip-Flops With 3-State Outputs	D-type flip-flop	2.7	3.6	16	Yes	-40 to 85	SSOP 48	V62/04711-01Y E
SN74LVTH273-EP	Enhanced Product 3.3-V Abt Octal D-Type Flip-Flops	D-type flip-flop	2.7	3.6	8	No	-55 to 125	SO 20	V62/04674-02Y E
SN74LVTH32374-EP	Enhanced Product 3.3-V Abt 32-Bit Edge-Triggered D-Type Flip-Flop With 3-State Outputs	D-type flip-flop	2.7	3.6	32	Yes	-40 to 85	LFBGA 96	V62/04722-01X A
SN74LVTH373-EP	Enhanced Product 3.3-V Abt Octal Transparent D-Type Latches With 3-State Outputs	D-type latch	2.7	3.6	8	Yes	-40 to 85	TSSOP 20	V62/04675-01X E
SN74LVTH374-EP	Enhanced Product 3.3-V Abt Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	D-type flip-flop	2.7	3.6	8	Yes	-40 to 85	TSSOP 20	V62/04676-01X E
SN74LVTH573-EP	Enhanced Product 3.3-V Abt Octal Transparent D-Type Latches With 3-State Outputs	D-type latch	2.7	3.6	8	Yes	-40 to 85	TSSOP 20	V62/04678-01X E
SN74LVTH574-EP	Enhanced Product 3.3-V Abt Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	D-type flip-flop	2.7	3.6	8	Yes	-40 to 85	TSSOP 20	V62/04679-01X E

Speciality Logic

Table 33. Speciality Logic

Part Number	Description	SubFamily	Technology Family	VCC (Min) (V)	VCC (Max) (V)	Bits (#)	Operating Temperature Range (°C)	Package Group	DLA - VID
CD74HC40103-EP	Enhanced Product High Speed Cmos Logic 8-Stage Synchronous Down Counters	Counter/parity function	HC	2	6	8	-40 to 125	SOIC 16	V62/04702-01X E
CD74HC4017-EP	Enhanced Product Decade Counter/Divider With 10 Decoded Outputs	Counter/parity function	HC	2	6	10	-40 to 125	SOIC 16, TSSOP 16	V62/04703-01X E
SN74AHC123A-EP	Enhanced Product Dual Retriggerable Multivibrator	Monostable multivibrator (one-shot)	AHC	2	5.5	2	-55 to 125	SOIC 16	V62/06665-01X E
SN74AHCT138-EP	Enhanced Product 3-Line To 8-Line Decoder / Demultiplexer	Encoders and decoders	AHCT	4.5	5.5	8	-55 to 125	SOIC 16, TSSOP 16	V62/03655-01X E
SN74HC253-EP	Enhanced Product Dual 4-Line To 1-Line Multiplexers	Encoders and decoders	HC	2	6	4	-40 to 125	SOIC 16	V62/04699-01X E
SN74LV123A-EP	Enhanced Product Dual Retriggerable Multivibrators	Monostable multivibrator	LV-A	2	5.5	2	-40 to 125	TSSOP 16	V62/03661-01X E
SN74LV393A-EP	Enhanced Product Dual 4-Bit Binary Counters	Counter/parity function	LV-A	2	5.5	4	-40 to 105	TSSOP 14	V62/04695-01X E
SN74LV4040A-EP	Enhanced Product 12-Bit Asynchronous Binary Counter	Counter/parity function	LV-A	2	5.5	12	-55 to 125	TSSOP 16	V62/07630-01X E
SN74LV8154-EP	Enhanced Product Dual 16-Bit Binary Counter With 3-State Output Registers	Counter/parity function	LV-A	2	5.5	16	-55 to 125	TSSOP 20	V62/06662-01X E
SN74LVC138A-EP	Enhanced Product 3-Line To 8-Line Decoder/Demultiplexer	Encoders and decoders	LVC	2	3.6	8	-55 to 125	SOIC 16, TSSOP 16	V62/04657-01X E
SN74LVC157A-EP	Enhanced Product Quadruple 2-Line To 1-Line Multiplexer	Encoders and decoders	LVC	2	3.6	2	-40 to 125	SOIC 16, TSSOP 16	V62/04659-01X E
SN74LVC257A-EP	Enhanced Product Quadruple 2-Line To 1-Line Multiplexer	Encoders and decoders	LVC	2	3.6	2	-55 to 125	TSSOP 16	V62/04660-02Y E
SN74LVT8980A-EP	Enhanced Product Embedded Test-Bus Controllers IEEE Std 1149.1 Tap Masters	Boundary scan (JTAG) logic	LVT	2.7	3.6	8	-40 to 85	SOIC 24	V62/03668-01X E
SN74LVT8996-EP	Enhanced Product 10-Bit Multidrop-Addressable IEEE Std 1149.1 Tap Transceiver	Boundary scan (JTAG) logic	LVT	2.7	3.6	10	-40 to 85	TSSOP 24	V62/04644-01X E

Part Number	Description	SubFamily	Technology Family	VCC (Min) (V)	VCC (Max) (V)	Bits (#)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74LVTH182512-EP	Enhanced Product 3.3-V Abt Scan Test Devices With 18-Bit Universal Bus Transceivers	Boundary scan (JTAG) logic	LVT	2.7	3.6	18	-40 to 85	TSSOP 64	V62/04730-01XE

Universal Bus Function

Table 34. Universal Bus Function

Part Number	Description	SubFamily	Technology Family	VCC (Min) (V)	VCC (Max) (V)	Bits (#)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74VMEH22501A-EP	Enhanced Product 8-Bit Universal Bus Transceiver And Two 1-Bit Bus Transceivers	Universal bus transceiver (UBT)	VME	3.15	3.45	8	-55 to 125	TSSOP 48, TVSOP 48	V62/05606-01XE

Motor Drivers

- Brushless DC (BLDC) Motor Drivers •

Brushless DC (BLDC) Motor Drivers

Table 35. Brushless DC (BLDC) Motor Drivers

Part Number	Description	Control Method	Sensor Type	Architecture	Peak Output Current (A)	Gate Drive (A)	Operating Temperature Range (°C)	Package Group	DLA - VID
UC2625-EP	Enhanced Product Brushless DC Motor Controller	External Control	Universal	Controller	-	-	-55 to 125	SOIC 28	V62/08624-01YE
DRV8842-EP	Enhanced Product Brushed DC or Half-Bipolar Stepper Motor Driver	PWM	Universal	-	6	2	-55 to 125	HTSSOP 28	V62/14615-01XE

Microcontrollers

- MSP430 Ultra-low-power MCUs •**
- C2000 Real-time Control MCUs •**
- Hercules MCUs for Functional Safety •**

MSP430 Ultra-low-power MCUs

Table 36. MSP430 Ultra-low-power MCUs

Part Number	Description	Non-volatile Memory (kB)	RAM (KB)	ADC: Channels (#)	GPIO Pins (#)	I2C/SPI/UART	Operating Temperature Range (°C)	Package Group	DLA - VID
MSP430F2013-EP	Enhanced Product 16-bit Ultra-Low-Power Microcontroller	2	0.125	4	10	1/1/0	-40 to 125	QFN 16	V62/11613-01XE
MSP430F2132-EP	Enhanced Product 16-bit Ultra-Low-Power Microcontroller	8	0.5	8	24	1/2/1	-40 to 125	VQFN 32	V62/13624-01XE
MSP430F2274-EP	Enhanced Product 16-Bit Ultra-Low-Power Microcontroller	32	1	12	32	1/1/1	-55 to 125	TSSOP 38, VQFN 40	V62/08631-01YE, V62/08631-01XE
MSP430F249-EP	Enhanced Product 16-Bit Ultra-Low-Power Microcontroller	60	2	8	48	4/2/2	-55 to 125	LQFP 64	V62/09601-01XE
MSP430F5328-EP	Enhanced Product Mixed Signal Microcontroller	128	10	10	47	2/2/2	-40 to 105	VQFN 64	V62/13628-01XE
MSP430F5438A-EP	Enhanced Product Mixed Signal Microcontroller	256	16	14	87	4/8/4	-55 to 125	LQFP 100	V62/14608-02XE
MSP430FR5739-EP	Enhanced Product 24 MHz ULP microcontroller	16	1	12	32	1/3/2	-55 to 85	VQFN 40	V62/14644-01XE
MSP430FR5989-EP	Enhanced Product 16 MHz ULP Microcontroller	128	2	12	48	2/4/2	-55 to 95	VQFN 64	V62/16627-01XE
MSP430G2230-EP	Enhanced Product 16-bit Ultra-Low-Power Mixed Signal MCU	2	0.125	4	4	1/1/0	-40 to 125	SOIC 8	V62/12620-01XE
MSP430G2231-EP	Enhanced Product 16-bit Ultra-Low-Power Mixed Signal MCU	2	0.125	8	10	1/1/0	-40 to 125	TSSOP 14	V62/12621-01XE
MSP430G2302-EP	Enhanced Product Mixed Signal Microcontroller	4	0.25	0	16	1/1/0	-40 to 85	TSSOP 14	V62/12623-01XE
MSP430G2332-EP	Enhanced Product Mixed Signal Microcontroller	4	0.25	8	16	1/1/0	-40 to 125	TSSOP 20	V62/12625-01XE

C2000 Real-time Control MCUs

Table 37. C2000 Real-time Control MCUs

Part Number	Description	Frequency (MHz)	Flash (KB)	ADC (Ch)	RAM (KB)	PWM (Ch)	Operating Temperature Range (°C)	Package Group	DLA - VID
SM320F2801-EP	Enhanced Product Digital Signal Processors	100	32	16	12	6	-55 to 125	LQFP 100	V62/06619-03XE
SM320F2808-EP	Enhanced Product Digital Signal Processors	100	128	16	36	12	-55 to 125	LQFP 100	V62/06619-01XE
SM320F2812-EP	Enhanced Product Digital Signal Processor	150	256	16	36	16	-55 to 125	LQFP 176	V62/05601-03ZE
SM320F28335-EP	Enhanced Product Delfino™ Microcontroller	150	512	up to 24	68	12	-55 to 125	BGA 176, HLQFP 176	V62/09624-02XE
SM320LF2407A-EP	Enhanced Product Digital Signal Controller	40	64	10	5	16	-55 to 125	LQFP 144	V62/04608-01XE
TMS320F28035-EP	Enhanced Product Piccolo™ Microcontroller	60	128	16	20	14	-55 to 125	LQFP 80	V62/18605-01XE
TMS320F28377D-EP	Enhanced Product Dual-Core Delfino™ Microcontroller	200	1024	9, 12, 20, 24	204	24	-55 to 125	HLQFP 176, NFBGA 337	V62/18601-01YE, V62/18601-01XF

Hercules MCUs for Functional Safety

Table 38. Hercules MCUs for Functional Safety

Part Number	Description	Frequency (MHz)	RAM (KB)	Data flash (KB)	ADC	CAN (#) /GPIO (#)	Operating Temperature Range (°C)	Package Group	DLA - VID
TMS570LC4357-EP	Enhanced Product 16- and 32-Bit ARM Cortex Flash Microcontroller	300	512	128	2 x 12-Bit (41ch)	3 / 144	-40 to 125	NFBGA 337	V62/18606-01XF
TMS570LS3137-EP	Enhanced Product 16- and 32-Bit ARM Cortex Flash Microcontroller	180	256	64	2 x 12-Bit (24ch)	3 / 144	-55 to 125	NFBGA 337	V62/13629-01XF, V62/13629-02XF

Processors

- [Sitara Processors](#) •
- [Digital Signal Processors](#) •

Sitara Processors

Table 39. Sitara Processors

Part Number	Description	Arm MHz (Max.)	Serial I/O	EMAC	Security Enabler	Co-processor(s)	Operating Temperature Range (°C)	Package Group	DLA - VID
AM3358-EP	Enhanced Product Sitara Processor: Arm Cortex-A8, 3D, PRU-ICSS	800	CAN, I2C, SPI, UART, USB	2-Port 10/100 PRU EMAC, 2-Port 1Gb Switch	Cryptographic acceleration	PRU-ICSS	-40 to 105	NFBGA 324	V62/15602-01XF

Digital Signal Processors

Table 40. Digital Signal Processors

Part Number	Description	SubFamily	DSP	DSP MHz	Operating Systems	ARM MHz	Operating Temperature Range (°C)	Package Group	DLA - VID
OMAPL138B-EP	Enhanced Product Low-Power Applications Processor	C6000 DSP + ARM	1 C674x	345	Linux, SYS/BIOS	345	-55 to 125	NFBGA 361	V62/12605-01XE
SM320C6201-EP	Enhanced Product Fixed-Point Digital Signal Processor	C6000 floating point DSP	1 C62x	200	DSP/BIOS	-	-40 to 105	FCBGA 352	V62/04606-01XA
SM320C6415-EP	Enhanced Product Fixed-Point Digital Signal Processor	C6000 floating point DSP	1 C64x	500	DSP/BIOS	-	-55 to 105	FCBGA 532	V62/04609-05XA
SM320C6424-EP	Enhanced Product Fixed-Point Digital Signal Processor	C6000 floating point DSP	1 C64x+	700	DSP/BIOS	-	-40 to 125	BGA 376	V62/09629-03XF
SM320C6701-EP	Enhanced Product Floating-Point Digital Signal Processor	C6000 floating point DSP	1 C67x	167	DSP/BIOS	-	-40 to 105	FCBGA 352	V62/03669-01XA
SM320C6711D-EP	Enhanced Product Floating-Point Digital Signal Processor	C6000 floating point DSP	1 C67x	167, 200, 250	DSP/BIOS	-	-40 to 105	BGA 272	V62/04753-04YA, V62/04753-16YA
SM320C6712D-EP	Enhanced Product Floating-Point Digital Signal Processor	C6000 floating point DSP	1 C67x	167	DSP/BIOS	-	-40 to 105	BGA 272	
SM320C6727B-EP	Enhanced Product Floating-Point Digital Signal Processor	C6000 floating point DSP	1 C67x+	250	DSP/BIOS	-	-55 to 125	BGA 256	V62/11617-01XF
SM320DM355-EP	Enhanced Product Digital Media System-on-Chip	Audio and media processors	-	-	Neutrino, PrOS, Integrity, Linux	135, 216, 270	-55 to 125	NFBGA 337	V62/09643-01XF
SM320VC33-EP	Enhanced Product Digital Signal Processor	Other DSPs	1 C3x	75	DSP/BIOS	-	-55 to 125	LQFP 144	V62/03610-01XE
SM320VC5416-EP	Enhanced Product Fixed-Point Digital Signal Processor	Audio and media processors	1 C54x	160	DSP/BIOS	-	-40 to 100	BGA 144	V62/04610-01YE
SM320VC5421-EP	Enhanced Product Fixed-Point Digital Signal Processor	C5000 low-power DSP	1 C54x	100	DSP/BIOS	-	-40 to 85	LQFP 144	V62/04607-01XE
SM320VC5507-EP	Enhanced Product Fixed-Point Digital Signal Processor	C5000 low-power DSP	1 C55x	108, 144, 200	DSP/BIOS, VLX	-	-55 to 85	LQFP 144	V62/09647-01XA

Power Management

- **Linear Regulators (LDO)**
- **DC/DC Switching Regulators**
- **Multi-channel ICs (PMIC)**
- **Battery Management**
- **Power Muxes**
- **Low-side Switches**
- **USB Power Switches and Charging Port Controllers**
- **Offline and Isolated DC/DC Controllers and Converters**
- **Gate Drivers**
- **Voltage References**
- **Supervisor and Reset IC**
- **LED Driver**
- **DDR Memory**
- **Digital Power**

Linear Regulators (LDO)

Table 41. Linear Regulators (LDO)

Part Number	Description	Output Options	Vin (Max) (V)	Vin (Min) (V)	Vout (Max) (V)	Vout (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS70345-EP	Enhanced Product Dual-Output Low-Dropout Voltage Regulators W/Power Up Sequencing	Fixed Output	6	2.7	3.3	3.3	-55 to 125	HTSSOP 24	V62/06616-01XE
TPS70751-EP	Enhanced Product Dual-Output Ldo Voltage Regulator W/Power-Up Sequencing	Fixed Output	6	2.7	3.3	3.3	-55 to 125	HTSSOP 20	V62/07610-01XE
TPS71202-EP	Enhanced Product Dual, 250-mA Output, Ultra-Low Noise, High PSRR, Low-Dropout, Linear Regulator	Adjustable Output	5.5	2.7	5.4	1.2	-55 to 125	VSON 10	V62/08621-01XE
TPS71501-EP	Enhanced Product 50 mA, 24 V, 3.2 uA Supply Current, Low Dropout, Linear Regulator	Adjustable Output	24	2.5	15	1.2	-55 to 125	SC70 5	V62/08619-01XE
TPS72118-EP	Enhanced Product Low Input Voltage, Cap Free 150-Ma Low-Dropout Linear Regulators	Fixed Output	5.5	1.8	1.8	1.8	-55 to 125	SOT-23 5	V62/07636-01XE
TPS73101-EP	Enhanced Product Cap-Free Nmos 150-Ma Low Dropout Regulator	Adjustable Output	5.5	1.7	5.5	1.2	-55 to 125	SOT-23 5	V62/06652-01XE
TPS731125-EP	Enhanced Product Cap-Free, Nmos, 150 Ma Low Dropout Regulator	Fixed Output	5.5	1.7	1.25	1.25	-55 to 125	SOT-23 5	V62/06652-09XE
TPS73115-EP	Enhanced Product Cap-Free Nmos 150-Ma Low Dropout Regulator	Fixed Output	5.5	1.7	1.5	1.5	-55 to 125	SOT-23 5	V62/06652-02XE
TPS73118-EP	Enhanced Product Cap-Free Nmos 150-Ma Low Dropout Regulator	Fixed Output	5.5	1.7	1.8	1.8	-55 to 125	SOT-23 5	V62/06652-03XE
TPS73125-EP	Enhanced Product Cap-Free Nmos 150-Ma Low Dropout Regulator	Fixed Output	5.5	1.7	2.5	2.5	-55 to 125	SOT-23 5	V62/06652-04XE
TPS73130-EP	Enhanced Product Cap-Free Nmos 150-Ma Low Dropout Regulator	Fixed Output	5.5	1.7	3	3	-55 to 125	SOT-23 5	V62/06652-05XE
TPS73132-EP	Enhanced Product Cap-Free Nmos 150-Ma Low Dropout Regulator	Fixed Output	5.5	1.7	3.2	3.2	-55 to 125	SOT-23 5	V62/06652-06XE
TPS73133-EP	Enhanced Product Cap-Free Nmos 150-Ma Low Dropout Regulator	Fixed Output	5.5	1.7	3.3	3.3	-55 to 125	SOT-23 5	V62/06652-07XE
TPS73150-EP	Enhanced Product Cap-Free Nmos 150-Ma Low Dropout Regulator	Fixed Output	5.5	1.7	5	5	-55 to 125	SOT-23 5	V62/06652-08XE
TPS73201-EP	Enhanced Product Cap-Free Nmos 250-Ma Ldo Regulator	Adjustable Output	5.5	1.7	5.4	1.2	-55 to 125	SOT-23 5	V62/06644-01XE
TPS73215-EP	Enhanced Product Cap-Free Nmos 250-Ma Ldo Regulator	Fixed Output	5.5	1.7	1.5	1.5	-55 to 125	SOT-23 5	V62/06644-02XE
TPS73216-EP	Enhanced Product Cap-Free Nmos 250-Ma Ldo Regulator	Fixed Output	5.5	1.7	1.6	1.6	-55 to 125	SOT-23 5	V62/06644-03XE
TPS73218-EP	Enhanced Product Cap-Free Nmos 250-Ma Ldo Regulator	Fixed Output	5.5	1.7	1.8	1.8	-55 to 125	SOT-23 5	V62/06644-04XE

Part Number	Description	Output Options	Vin (Max) (V)	Vin (Min) (V)	Vout (Max) (V)	Vout (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS73225-EP	Enhanced Product Cap-Free Nmos 250-Ma Ldo Regulator	Fixed Output	5.5	1.7	2.5	2.5	-55 to 125	SOT-23 5	V62/06644-05XE
TPS73230-EP	Enhanced Product Cap-Free Nmos 250-Ma Ldo Regulator	Fixed Output	5.5	1.7	3	3	-55 to 125	SOT-23 5	V62/06644-06XE
TPS73233-EP	Enhanced Product Cap-Free Nmos 250-Ma Ldo Regulator	Fixed Output	5.5	1.7	3.3	3.3	-55 to 125	SOT-23 5	V62/06644-07XE
TPS73250-EP	Enhanced Product Cap-Free Nmos 250-Ma Ldo Regulator	Fixed Output	5.5	1.7	5	5	-55 to 125	SOT-23 5	V62/06644-08XE
TPS73601-EP	Enhanced Product Cap-Free Low Dropout Regulator	Adjustable Output	5.5	1.7	5.4	1.2	-55 to 125	SON 8, SOT-223 6, SOT-23 5	V62/06626-01XE, V62/06626-01YE, V62/06626-01ZE
TPS73615-EP	Enhanced Product Cap-Free Low Dropout Regulator	Fixed Output	5.5	1.7	1.5	1.5	-55 to 125	SOT-23 5	V62/06626-02XE
TPS73618-EP	Enhanced Product Cap-Free Low Dropout Regulator	Fixed Output	5.5	1.7	1.8	1.8	-55 to 125	SOT-23 5	V62/06626-03XE
TPS73625-EP	Enhanced Product Cap-Free Low Dropout Regulator	Fixed Output	5.5	1.7	2.5	2.5	-55 to 125	SOT-23 5	V62/06626-04XE
TPS73630-EP	Enhanced Product Cap-Free Low Dropout Regulator	Fixed Output	5.5	1.7	3	3	-55 to 125	SOT-23 5	V62/06626-05XE
TPS73632-EP	Enhanced Product Cap-Free Low Dropout Regulator	Fixed Output	5.5	1.7	3.2	3.2	-55 to 125	SOT-23 5	V62/06626-06XE
TPS73633-EP	Enhanced Product Cap-Free Low Dropout Regulator	Fixed Output	5.5	1.7	3.3	3.3	-55 to 125	SOT-23 5	V62/06626-07XE
TPS74401-EP	Enhanced-product single-output 3A LDO, adjustable, fast transient response	Adjustable Output	5.5	0.8	3.6	0.8	-55 to 125	VQFN 20	V62/10611-01XE
TPS75125-EP	Enhanced Product Fast-Trans-Resp 1.5-A Ldo V-Reg	Fixed Output	5.5	2.7	2.5	2.5	-55 to 125	HTSSOP 20	V62/03636-14XE
TPS75201-EP	Enhanced Product Fast Trans Respon Volt Regulators	Adjustable Output	5.5	2.7	5.5	1.5	-40 to 125	HTSSOP 20	V62/03635-11XE
TPS75201M-EP	Enhanced Product Fast Trans Respond Volt Regulators	Adjustable Output	5.5	2.7	5.5	1.5	-55 to 125	HTSSOP 20	V62/03635-11XE
TPS75215-EP	Enhanced Product Fast Transient Response Voltage Regulators	Fixed Output	5.5	2.7	1.5	1.5	-40 to 125	HTSSOP 20	V62/03635-02XE
TPS75218-EP	Enhanced Product Fast Trans Response Volt Regulators	Fixed Output	5.5	2.7	1.8	1.8	-40 to 125	HTSSOP 20	V62/03635-03XE
TPS75225-EP	Enhanced Product Fast Transient Response Voltage Regulators	Fixed Output	5.5	2.7	2.5	2.5	-40 to 125	HTSSOP 20	V62/03635-04XE
TPS75233-EP	Enhanced Product Fast Transient Response Voltage Regulators	Fixed Output	5.5	2.7	3.3	3.3	-40 to 125	HTSSOP 20	V62/03635-05XE
TPS75301-EP	Enhanced Product Fast-Transient-Response 1.5-A Low-Dropout Voltage Regulator	Adjustable Output	5.5	2.7	5.5	1.5	-40 to 125	HTSSOP 20	V62/03636-06XE
TPS75318-EP	Enhanced Product Fast-Transient-Response 1.5-A Low-Dropout Voltage Regulator	Fixed Output	5.5	2.7	1.8	1.8	-40 to 125	HTSSOP 20	V62/03636-08XE
TPS75325-EP	Enhanced Product Fast-Transient-Response 1.5-A Low-Dropout Voltage Regulator	Fixed Output	5.5	2.7	2.5	2.5	-40 to 125	HTSSOP 20	V62/03636-09XE

Part Number	Description	Output Options	Vin (Max) (V)	Vin (Min) (V)	Vout (Max) (V)	Vout (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS75333-EP	Enhanced Product Fast-Transient-Response 1.5-A Low-Dropout Voltage Regulator	Fixed Output	5.5	2.7	3.3	3.3	-40 to 125	HTSSOP 20	V62/03636-10XE
TPS76701-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Adjustable Output	10	2.7	5.5	1.2	-40 to 125	HTSSOP 20	V62/03630-01XE
TPS76715-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Fixed Output	10	2.7	1.5	1.5	-40 to 125	HTSSOP 20	V62/03630-02XE
TPS76718-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Fixed Output	10	2.7	1.8	1.8	-40 to 125	HTSSOP 20	V62/03630-03XE
TPS76725-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Fixed Output	10	2.7	2.5	2.5	-40 to 125	HTSSOP 20	V62/03630-04XE
TPS76733-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Fixed Output	10	2.7	3.3	3.3	-40 to 125	HTSSOP 20	V62/03630-08XE
TPS767D301-EP	Enhanced Product Dual-Output Low-Dropout Voltage Regulators	Adjustable Output, Fixed Output	10	2.7	5.5	1.5	-55 to 125	HTSSOP 28	V62/06617-01XE
TPS76801-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Adjustable Output	10	2.7	5.5	1.2	-55 to 125	HTSSOP 20	V62/03632-01XE
TPS76815-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Fixed Output	10	2.7	1.5	1.5	-40 to 125	HTSSOP 20	V62/03632-02XE
TPS76818-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Fixed Output	10	2.7	1.8	1.8	-40 to 125	HTSSOP 20	V62/03632-03XE
TPS76825-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Fixed Output	10	2.7	2.5	2.5	-40 to 125	HTSSOP 20	V62/03632-04XE
TPS76833-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Fixed Output	10	2.7	3.3	3.3	-40 to 125	HTSSOP 20	V62/03632-08XE
TPS76850-EP	Enhanced Product Fast-Transient-Response 1-A Low-Dropout Voltage Regulators	Adjustable Output, Fixed Output	10	2.7	5	5	-55 to 125	HTSSOP 20	V62/03632-11XE
TPS77401-EP	Enhanced Product 250-Ma Ldo Voltage Regulator With Power-Good Output	Adjustable Output	10	2.7	5.5	1.5	-55 to 125	VSSOP 8	V62/06663-01XE
TPS77501-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Adjustable Output	10	2.7	5.5	1.5	-55 to 125	HTSSOP 20	V62/03631-01XE
TPS77515-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Fixed Output	10	2.7	1.5	1.5	-55 to 125	HTSSOP 20	V62/03631-02XE

Part Number	Description	Output Options	Vin (Max) (V)	Vin (Min) (V)	Vout (Max) (V)	Vout (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS77518-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Fixed Output	10	2.7	1.8	1.8	-55 to 125	HTSSOP 20	V62/03631-04XE
TPS77525-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Fixed Output	10	2.7	2.5	2.5	-55 to 125	HTSSOP 20	V62/03631-05XE
TPS77533-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Fixed Output	10	2.7	3.3	3.3	-55 to 125	HTSSOP 20	V62/03631-06XE
TPS77601-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Adjustable Output	10	2.7	5.5	1.2	-40 to 125	HTSSOP 20	V62/03631-07XE
TPS77615-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Fixed Output	10	2.7	1.5	1.5	-40 to 125	HTSSOP 20	V62/03631-08XE
TPS77618-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Fixed Output	10	2.7	1.8	1.8	-40 to 125	HTSSOP 20	V62/03631-09XE
TPS77625-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Fixed Output	10	2.7	2.5	2.5	-40 to 125	HTSSOP 20	V62/03631-10XE
TPS77633-EP	Enhanced Product Fast-Transient-Response 500-Ma Low-Dropout Voltage Regulators	Fixed Output	10	2.7	3.3	3.3	-40 to 125	HTSSOP 20	V62/03631-12XE
TPS79101-EP	Enhanced Product Ultralow Noise High Psrr Fast Rf 100-Ma Low-Dropout Linear Regulator	Adjustable Output	5.5	2.7	5.2	1.2	-40 to 125	SOT-23 6	V62/03644-01YE
TPS79133-EP	Enhanced Product Ultralow Noise High Psrr Fast Rf 100-Ma Low-Dropout Linear Regulator	Fixed Output	5.5	2.7	3.3	3.3	-55 to 125	SOT-23 5	V62/03644-03XE
TPS79147-EP	Enhanced Product Ultralow Noise High Psrr Fast Rf 100-Ma Low-Dropout Linear Regulator	Fixed Output	5.5	2.7	4.7	4.7	-40 to 125	SOT-23 5	V62/03634-04XE
TPS79301-EP	Enhanced Product Ultralow-Noise, High Psrr, Fast Rf 200-Ma Low-Dropout Linear Regulators	Adjustable Output	5.5	2.7	5.5	1.22	-40 to 125	SOT-23 6	V62/03634-01YE
TPS79318-EP	Enhanced Product Ultralow-Noise High Psrr Fast Rf 200-Ma Low-Dropout Linear Regulators	Fixed Output	5.5	2.7	1.8	1.8	-40 to 125	SOT-23 5	V62/03634-02XE
TPS79333-EP	Enhanced Product Ultralow-Noise High Psrr Fast Rf 200-Ma Low-Dropout Linear Regulators	Fixed Output	5.5	2.7	3.3	3.3	-40 to 125	SOT-23 5	V62/03634-07XE
TPS793475-EP	Enhanced Product Ultralow-Noise High Psrr Fast Rf 200-Ma Low-Dropout Linear Regulators	Adjustable Output, Fixed Output	5.5	2.7	4.75	4.75	-40 to 125	SOT-23 5	V62/03634-08XE
TPS79718-EP	Enhanced Product Ultra Low-Power 10 Ma Ldo Linear Regulators With Power Good	Fixed Output	5.5	2	1.8	1.8	-55 to 125	SC70 5	V62/06673-01XE

Part Number	Description	Output Options	Vin (Max) (V)	Vin (Min) (V)	Vout (Max) (V)	Vout (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS79730-EP	Enhanced Product Ultra Low-Power Linear Regulators w/ Power Good Output	Fixed Output	5.5	1.8	3	3	-55 to 125	SC70 5	V62/06673-02XE
TPS79901-EP	Enhanced Product 200-mA, Low Quiescent Current, UltraLow Noise, High PSRR, Low Dropout	Adjustable Output	6.5	2.7	6.5	1.2	-55 to 125	WSON 6	V62/17614-01XE
TPS7A3001-EP	Enhanced Product Negative Vin, -200mA, Ultra-Low-Noise, High-PSRR, Low-Dropout Linear Regulator	Adjustable Output, Negative Output	-3	-36	-1.2	-33	-55 to 125	MSOP-PowerPAD 8	V62/11619-01XE
TPS7A4001-EP	Enhanced Product 100V Input Voltage, 50mA Single Output Low Dropout Linear Regulator	Adjustable Output	100	7	90	1.2	-55 to 125	MSOP-PowerPAD 8	V62/15603-01XE
TPS7A4701-EP	Enhanced Product 36-V, 1-A, 4-μVRMS, RF LDO Voltage Regulator	Adjustable Output	36	3	34	1.4	-55 to 125	VQFN 20	V62/17601-01XE
TPS7A7200-EP	Enhanced Product 2-A, Fast-Transient, Low-Dropout Voltage Regulator	Adjustable Output, Programmable Output	6.5	1.43	5	0.9	-40 to 125	VQFN 20	V62/13612-01XE

DC/DC Switching Regulators

Table 42. Step-down (Buck)

Part Number	Description	Output Options	Vin (Max) (V)	Vin (Min) (V)	Vout (Max) (V)	Vout (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS40021-EP	Enhanced Product Synchronous Buck Controller	2.25	5.5	0.7	4	25	-55 to 125	HTSSOP 16	V62/12601-01XE
TPS40055-EP	Enhanced Product Wide Input Synchronous Buck Controller	8	40	0.7	35	20	-55 to 125	HTSSOP 16	V62/05617-01XE
TPS40170-EP	Enhanced Product 4.5 V to 60 V Wide-Input Synchronous PWM Buck Controller	4.5	60	0.6	57	20	-55 to 125	VQFN 20	V62/13607-01XE
TPS40200-EP	Enhanced Product Wide-Input-Range Non-Synchronous Voltage-Mode Controller	4.5	52	0.7	46	3	-55 to 125	SOIC 8	V62/07618-01XE
TPS5120-EP	Enhanced Product Dual Output Two-Phase Synchronous Buck Dc/Dc Controller	4.5	28	0.9	26	1.5	-55 to 125	TSSOP 30	V62/04645-01XE, V62/04645-02XE
TPS54010-EP	Enhanced Product 2.2-V to 4-V, 14-A Output Synchronous Buck PWM Switcher	2.2	4	0.9	2.5	14	-55 to 125	HTSSOP 28	V62/13604-01XE
TPS54060-EP	Enhanced Product TPS54060-EP- 0.5-A, 60V Step Down DC/DC Converter with Eco-Mode	3.5	60	0.8	58	0.5	-55 to 125	MSOP-PowerPAD 10	V62/14617-01XE
TPS5410-EP	Enhanced Product 5.5V to 36V, 1A, 500kHz Step Down Converter	5.5	36	1.23	31	1	-55 to 125	SOIC 8	V62/09645-01XE
TPS5420-EP	Enhanced Product 5.5V to 36V Input, 2A, 500kHz Step Down Converter	5.5	36	1.23	31	2	-55 to 125	SOIC 8	V62/07613-01XE
TPS54260-EP	Enhanced Product 3.5-V to 60-V Input, 2.5A Step-Down Converter	3.5	60	0.8	58	2.5	-55 to 125	MSOP-PowerPAD 10, VSON 10	V62/16624-01XE, V62/16624-01YE
TPS5430-EP	Enhanced Product 5.5V to 36V Input, 3A, 500kHz Step Down Converter	5.5	36	1.23	31	3	-55 to 125	SO PowerPAD 8	V62/09625-01XE

Part Number	Description	Output Options	Vin (Max) (V)	Vin (Min) (V)	Vout (Max) (V)	Vout (Min) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS54310-EP	Enhanced Product 3-V To 6-V, 3-A Output Synchronous-Buck Pwm Switcher w/FETs	3	6	3.3	3.3	3	-55 to 125	HTSSOP 20	V62/08606-01XE
TPS54311-EP	Enhanced Product 3-V To 6-V, 3-A Output Synchronous-Buck Pwm Switcher w/FETs	3	6	1.5	1.5	3	-55 to 125	HTSSOP 20	V62/06657-01XE
TPS54312-EP	Enhanced Product 3V to 6V Input, 3A, Synchronous Buck PWM Switcher w/ FETs	3	6	0.9	3.3	3	-55 to 125	HTSSOP 20	V62/06657-02XE
TPS54313-EP	Enhanced Product 3-V To 6-V, 3-A Output Synchronous-Buck Pwm Switcher w/FETs	3	6	1.8	1.8	3	-55 to 125	HTSSOP 20	V62/06657-03XE
TPS54314-EP	Enhanced Product 3-V To 6-V, 3-A Output Synchronous-Buck Pwm Switcher w/FETs	3	6	0.9	0.9	3	-55 to 125	HTSSOP 20	V62/06657-04XE
TPS54315-EP	Enhanced Product 3-V To 6-V In, 3-A Out, Synchronous-Buck Pwm Switchers w/FETs	3	6	1.2	1.2	3	-55 to 125	HTSSOP 20	V62/06657-05XE
TPS54316-EP	Enhanced Product 3-V To 6-V, 3-A Output Synchronous-Buck Pwm Switcher w/FETs	3	6	2.5	2.5	3	-55 to 125	HTSSOP 20	V62/06657-06XE
TPS54350-EP	Enhanced Product 4.5-V To 20-V Input 3-A Output Synchronous Pwm Switcher w/FETs	4.5	20	0.9	12	3	-55 to 125	HTSSOP 16	V62/06610-01XE
TPS54354-EP	Enhanced Product 4.5-V To 20-V Input, 3-A Output Synchronous Pwm Switches w/FETs	4.5	20	1.8	1.8	3	-55 to 125	HTSSOP 16	V62/07616-03XE
TPS54356-EP	Enhanced Product 4.5-V To 20-V Input, 3-A Output Synchronous Pwm Switches W/ Integrated Fet	6.5	20	3.2	3.36	3	-55 to 125	HTSSOP 16	V62/07616-05XE
TPS5450-EP	Enhanced Product 5.5V to 36V Input, 5A, 500kHz Step-Down Converter	5.5	36	1.22	31	5	-55 to 125	SO PowerPAD 8	V62/09644-01XE
TPS54610-EP	Enhanced Product 3-V To 6-V Input, 6-A Output Synchronous Buck Pwm Switcher w/FETs	3	6	2.5	2.5	6	-55 to 125	HTSSOP 28	V62/05622-01XE
TPS54615-EP	Enhanced Product 3V to 6V Input Tracking Synchronous Buck Pwm Switcher	3	6	0.9	3.3	6	-55 to 125	HTSSOP 28	V62/05620-05XE
TPS54680-EP	Enhanced Product 3-V To 6-V Input, 6-A Output Synchronous Buck Pwm Switcher W/ Integr. Fets	3	6	0.9	4.5	6	-55 to 125	HTSSOP 28	V62/04641-02XE
TPS57114-EP	Enhanced Product 2.95V to 6V Input, 3.5-A Output, 2MHz, Synchronous Step Down Switcher	2.95	6	0.8	4.5	3.5	-55 to 125	WQFN 16	V62/14612-01XE
TPS57140-EP	TPS57140-EP 1.5-A 42-V STEP-DOWN DC-DC Converter with Eco-mode™ Control	3.5	42	0.8	39	1.5	-55 to 125	VSON 10	V62/15604-01YE
TPS62110-EP	Enhanced Product 17-V, 1.5-A, Synchronous Step-Down Converter	3.1	17	3.3	3.3	1.5	-55 to 125	QFN 16	V62/07622-01XE
TPS62111-EP	Enhanced Product 17 V, 1.5 A Synchronous Step-Down Converter	3.1	17	1.153	16	1.5	-55 to 125	QFN 16	V62/07622-02XE
TPS62112-EP	Enhanced Product 17 V, 1.5 A, Synchronous Step-Down Converter	3.1	17	5	5	1.5	-55 to 125	QFN 16	V62/07622-03XE

Table 43. Step-up (Boost)

Part Number	Description	Vin (Min) (V)	Vin (Max) (V)	Vout (Min) (V)	Vout (Max) (V)	Type	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS40210-EP	Enhanced Product 4.5-V to 52-V Input Current Mode Boost Controller	4.5	52	5	300	Controller	-55 to 125	VSON 10	V62/16602-01XE
TPS55340-EP	Enhanced Product Integrated, 5-A 40-V Wide Input Range Boost/SEPIC/Flyback DC-DC Regulator	2.9	32	3	38	Converter	-55 to 125	WQFN 16	V62/14611-01XE
TPS61222-EP	Enhanced Product Low Input Voltage, 0.7V, Boost Converter	0.7	5.5	4.8	5.19	Converter	-55 to 125	SC70 6	V62/12603-01XE

Table 44. Buck-boost and Inverting

Part Number	Description	Vin (Min) (V)	Vin (Max) (V)	Vout (Min) (V)	Vout (Max) (V)	Type	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS63060-EP	Enhanced Product High Input Voltage Buck-Boost Converter	2.5	12	2.5	8	Converter	-55 to 125	WSON 10	V62/14602-01XE
TL1451A-EP	Enhanced Product Dual PWM Control Circuits	3.6	50	1	50	Controller	-55 to 125	SOIC 16	V62/06611-01XE

Multi-channel ICs (PMIC)

Table 45. Multi-channel ICs (PMIC)

Part Number	Description	Regulated Outputs (#)	Vin (Min) (V)	Vin (Max) (V)	Iout (Max) (A)	Step-Down DC/DC Controller	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS75003-EP	Enhanced Product Triple-Supply Power Management IC (PMIC) For Powering FPGAs and DSPs	3	2.2	6.5	3	2	-55 to 125	VQFN 20	V62/07614-01XE
LM26480-EP PREVIEW DEVICE	Enhanced Product Dual 2MHz 1.5A buck regulators and dual 300mA LDOs	4	2.8	5.5	1.5		-55 to 125	WQFN 24	WIP
Expect availability early 2020									

Battery Management

Table 46. Battery Management

Part Number	Description	Charge Current (Max) (A)	Operating Vin (Max) (V)	Cell Chemistry	Control Topology	Control Interface	Operating Temperature Range (°C)	Package Group	DLA - VID
UC2909-EP	Enhanced Product Switch-mode Lead-Acid Battery Charger with Differential Current Sense	2	40	Lead Acid	Switch Mode	Standalone (RC-Settable)	-55 to 125	SOIC 20	V62/10616-01XE

Power Muxes

Table 47. Power Muxes

Part Number	Description	IN1, IN2 Input Voltage (Min) (V)	IN1, IN2 Input Voltage (Max) (V)	IN1, IN2 rDS(on) (Typ) (mΩ)	IN1 Output Current (Max) (A)	IN2 Output Current (Max) (A)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS2105-EP	Enhanced Product 2.7-5.5V Dual In/Single Out MOSFET	2.7	5.5	250, 1.3	0.5	0.1	-55 to 125	SOT-23 5	V62/14616-01XE

Low-side Switches

Table 48. Low-side Switches

Part Number	Description	Switching Voltage (Max) (V)	Output Voltage (Max) (V)	Peak Output Current (mA)	Delay Time (Typ) (ns)	Vol at Lowest Spec Current (Typ) (mV)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN65472-EP	Enhanced Product Dual Peripheral Driver	55	70	500	30	250	-40 to 85	SOIC 8	V62/13618-01XE

USB Power Switches and Charging Port Controllers

Table 49. USB Power Switches and Charging Port Controllers

Part Number	Description	Vin (Min) (V)	Vin (Max) (V)	Continuous Current (Max) (A)	Current Limit (A)	Current Limit Topology	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS2041B-EP	Enhanced Product Single-Channel Current-Limited Power Distribution Switch	2.7	5.5	0.5	1	Constant-Current	-55 to 125	SOT-23 5	V62/11620-01XE

Offline and Isolated DC/DC Controllers and Converters

Table 50. Power Factor Correction (PFC) Controllers

Part Number	Description	Practical Operating Frequency (Max) (MHz)	Operating Supply (Max) (V)	Startup Current (mA)	Operating Supply Current (mA)	UVLO Thresholds On/Off (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
UCC2818-EP	Enhanced Product BiCMOS Power Factor Preregulator	0.25	18	0.15	4	10.5/10	-55 to 125	SOIC 16	V62/09617-01XE
UC2854B-EP	Enhanced Product Advanced High-Power Factor Preregulator	0.2	20	0.25	12	10.5/10	-55 to 125	SOIC 16	V62/06612-01XE

Table 51. PWM Controllers and Resonant Controllers

Part Number	Description	Control Method	UVLO Thresholds On/Off (V)	Topology	Frequency (Max) (kHz)	Gate Drive (Typ) (A)	Operating Temperature Range (°C)	Package Group	DLA - VID
UC1842A-EP	Enhanced Product Current-Mode PWM Controller	Current	16/10	Boost, Flyback, Forward	500	1	-55 to 125	SOIC 8	V62/03625-01YE
UC1843A-EP	Enhanced Product Current-Mode PWM Controller	Current	8.4/7.6	Boost, Flyback, Forward	500	1	-55 to 125	SOIC 8	V62/03625-02YE
UC1844A-EP	Enhanced Product Current Mode PWM Controller	Current	16/10	Boost, Flyback, Forward	500	1	-55 to 125	SOIC 8	V62/03625-03YE
UC1845A-EP	Enhanced Product Current-Mode PWM Controller	Current	8.4/7.6	Boost, Flyback, Forward	500	1	-55 to 125	SOIC 8	V62/03625-04YE
UC1846-EP	Enhanced Product Current-Mode PWM Controller	Current	7.7/6.95	Boost, Flyback, Forward, Full and Half-Bridge, Push-Pull	500	0.5	-55 to 125	SOIC 16	V62/06606-01XE
UC2825A-EP	Enhanced Product High-Speed PWM Controller	Current, Voltage	9.2/8.4	Boost, Flyback, Forward, Full and Half-Bridge, Push-Pull	1000	2	-55 to 125	SOIC 16	V62/05616-01XE V62/05616-02XE
UC2875-EP	Enhanced Product Phase Shift Resonant Controller	Current, Voltage	10/7/9.2	Full-Bridge	1000	2	-25 to 110	SOIC 28	V62/04752-01XE
UC2901-EP	Enhanced Product Isolated Feedback Generator		3.9/3.9		5000	0	-55 to 125	SOIC 14	V62/07609-01XE
UCC2800-EP	Enhanced Product Low-Power Bicomos Current-Mode PWM	Current	7.2/6.9	Boost, Flyback, Forward	1000	1	-55 to 125	SOIC 8	V62/03624-01XE V62/03624-09XE
UCC2801-EP	Enhanced Product Low-Power Bicomos Current-Mode PWM	Current	9.4/7.4	Boost, Flyback, Forward	1000	1	-55 to 125	SOIC 8	V62/03624-02XE V62/03624-07XE
UCC2802-EP	Enhanced Product Low-Power Bicomos Current-Mode PWM	Current	12.5/8.3	Boost, Flyback, Forward	1000	1	-40 to 125	SOIC 8	V62/03624-03XE

Part Number	Description	Control Method	UVLO Thresholds On/Off (V)	Topology	Frequency (Max) (kHz)	Gate Drive (Typ) (A)	Operating Temperature Range (°C)	Package Group	DLA - VID
UCC2803-EP	Enhanced Product Low-Power Bicomos Current-Mode PWM	Current	4.1/3.6	Boost, Flyback, Forward	1000	1	-55 to 125	SOIC 8	V62/03624-04XE V62/03624-08XE
UCC2804-EP	Enhanced Product Low-Power Bicomos Current-Mode PWM	Current	12.5/8.3	Boost, Flyback, Forward	1000	1	-40 to 125	SOIC 8	V62/03624-05XE
UCC2805-EP	Enhanced Product Low-Power Bicomos Current-Mode PWM	Current	4.1/3.6	Boost, Flyback, Forward	1000	1	-40 to 125	SOIC 8	V62/03624-06XE
UCC2808A-1EP	Enhanced Product Low Power Current Mode Push-Pull PWM	Current	12.5/8.3	Push-Pull	1000	1	-40 to 125	SOIC 8	V62/04642-01XE
UCC2808A-2EP	Enhanced Product Low Power Current Mode Push-Pull PWM	Current	4.3/4.1	Push-Pull	1000	1	-40 to 125	SOIC 8	V62/04642-02XE
UCC2895-EP	Enhanced Product Bicomos Advanced Phase Shift PWM Controller	Current, Feedforward, Voltage	11/9	Phase-Shifted Full-Bridge	1000	0.1	-55 to 125	SOIC 20	V62/06614-01XE
UCC2897A-EP PREVIEW DEVICE	Enhanced Product Advanced Current-Mode Active Clamp PWM Controller	Current	12.7/8	Active-Clamp Forward	1000	2	-55 to 125	TSSOP 20	WIP
Expect availability late 2019									
UCC28C43-EP	Enhanced Product Bicomos Low-Power Current-Mode PWM Controller	Peak Current Mode	8.4/7.6	Boost, Buck, Buck-Boost, Flyback, Forward	1000	1	-55 to 125	SOIC 8	V62/07615-01XE
UCC28C45-EP	Enhanced Product Bicomos Low-Power Current-Mode PWM Controller	Peak Current Mode	8.4/7.6	Boost, Buck, Buck-Boost, Flyback, Forward	1000	1	-55 to 125	SOIC 8	V62/07615-02XE

Gate Drivers

Table 52. Gate Drivers

Part Number	Description	Number of Channels (#)	Power Switch	Peak Output Current (A)	Input VCC (Min) (V)	Input VCC (Max) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
LMG1210-EP PREVIEW DEVICE	Enhanced Product 200V, 1.5A/3A Half Bridge GaN Driver	1	MOSFET, GaNFET	3	6	18	-55 to 125	WQFN 16	WIP
Expect availability mid 2020									
ISO5852S-EP	Enhanced Product 2.5-A / 5-A Isolated IGBT, MOSFET Gate Driver	1	IGBT, SiC FET	5	2.25	5.5	-55 to 125	SOIC 16	V62/16623-01XE
TPS2818-EP	Enhanced Product Single High-Speed MOSFET Driver	1	MOSFET	2	4	14	-55 to 125	SOT-23 5	V62/08601-03XE
TPS2819-EP	Enhanced Product Single High-Speed MOSFET Driver	1	MOSFET	2	4	14	-55 to 125	SOT-23 5	V62/08601-04XE
UCC27322-EP	Enhanced Product Single 9-A High Speed Low-Side MOSFET Driver	1	MOSFET, IGBT	9	4	15	-55 to 125	SOIC 8, VSSOP 8	V62/11601-01XE, V62/11601-02YE
UCC27423-EP	Enhanced Product Dual 4-A MOSFET Driver with Enable	2	MOSFET, IGBT	4	4.5	15	-55 to 125	SOIC 8	V62/07624-02XE
UCC27424-EP	Enhanced Product Dual 4-A MOSFET Driver	2	MOSFET, IGBT	4	4.5	15	-55 to 125	MSOP-PowerPAD 8	V62/07624-01XE
UCC27512-EP	Enhanced Product 8-A High-Speed, Low-Side Gate Driver	1	MOSFET, IGBT, GaNFET	8	4.5	18	-55 to 125	SON 6	V62/13608-01XE

Voltage References

Table 53. Voltage References

Part Number	Description	SubFamily	VO (V)	Vin (Min) (V)	Vin (Max) (V)	Initial Accuracy (Max) (%)	Operating Temperature Range (°C)	Package Group	DLA - VID
LM4040C25-EP	Enhanced Product 2.5V Precision Micropower Shunt Voltage Reference	Shunt voltage references	2.5	-	-	0.5	-55 to 125	SOT-23J3	V62/11615-01XE
REF3425-EP	Enhanced Product 2.5V low-drift low-power reference	Series voltage references	2.5	2.55	12	0.05	-55 to 125	SOT-23J6	V62/18622-01XE
REF3430-EP	Enhanced Product 3.0V low-drift low-power reference	Series voltage references	3	3.05	12	0.05	-55 to 125	SOT-23J6	V62/18622-03XE
REF3433-EP	Enhanced Product 3.3V low-drift low-power reference	Series voltage references	3.3	3.35	12	0.05	-55 to 125	SOT-23J6	V62/18622-04XE
REF3440-EP	Enhanced Product 4.0V low-drift low-power reference	Series voltage references	4.096	4.15	12	0.05	-55 to 125	SOT-23J6	V62/18622-02XE
REF5020-EP	Enhanced Product 2.0V Low-Noise, Very Low Drift, Precision Voltage Reference	Series voltage references	2.048	2.7	18	0.05	-55 to 125	SOICJ8	V62/10613-01XE
REF5025-EP	Enhanced Product 2.5V Low-Noise, Very Low Drift, Precision Voltage Reference	Series voltage references	2.5	2.7	18	0.05	-55 to 125	SOICJ8	V62/10613-04XE
REF5040-EP	Enhanced Product 4V Low-Noise, Very Low Drift, Precision Voltage Reference	Series voltage references	4.096	4.296	18	0.05	-55 to 125	SOICJ8	V62/10613-02XE
REF5050-EP	Enhanced Product 5V Low-Noise, Very Low Drift, Precision Voltage Reference	Series voltage references	5	5.2	18	0.05	-55 to 125	SOICJ8	V62/10613-03XE
TL1431-EP	Enhanced Product Precision Adjustable Shunt Reference	Shunt voltage references	Adjustable 2.5V to 36V	2.5	36	0.4	-55 to 125	SOICJ8	V62/04756-01XE, V62/04756-02XE
TLVH431B-EP PREVIEW DEVICE Expect availability late 2019	Enhanced Product Precision Adjustable Shunt Reference	Shunt voltage references	Adjustable 1.24V to 18V	1.24	18	b	-55 to 125	SOT23J3	WIP
TLE2426-EP	Enhanced Product Rail Splitter Precision Virtual Ground	Series voltage references		4	40		-55 to 125	SOICJ8	V62/06601-01XE

Supervisor and Reset IC

Table 54. Supervisor and Reset IC

Part Number	Description	Threshold Voltage 1 (Typ) (V)	Number of Supplies Monitored	Output Driver Type/Reset Output	Time Delay (ms)	VCC (Max) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TLC77-EP	Enhanced Product Micropower Supply Voltage Supervisors	Adjustable, 1.1, 2.93, 4.5	1	Active-high, Active-low, Push-pull	Programmable	6	-55 to 125	SOICJ8, TSSOPJ8	V62/04604-01XE
TPS3106-EP	Enhanced Product Ultra-Low Supply-Current/Supply-Voltage Supervisory Circuits	2.941	1	-	195	3.6	-55 to 125	SOT-23J6	V62/06643-07XE
TPS3307-EP	Enhanced Product Triple Processor Voltage Supervisor	2.93, 4.55	3	Active-high, Active-low, Push-pull	200	6	-55 to 125	MSOP-PowerPADJ8, SOICJ8	V62/03629-01XE, V62/03629-02YE
TPS3619-33-EP	Enhanced Product Backup-Battery Supervisors	2.93	1	Active-low, Push-pull	100	5.5	-55 to 125	VSSOPJ8	V62/06670-01XE
TPS3620-33-EP	Enhanced Product Backup-Battery Supervisors	2.93	1	Active-low, Push-pull	100	5.5	-55 to 125	VSSOPJ8	V62/06670-03XE
TPS3803-EP	Enhanced Product Voltage Detector	Adjustable, 1.4, 3.05	1	Active-low, Open-drain	0	6	-55 to 125	SC70J5	V62/04648-01XE

Part Number	Description	Threshold Voltage 1 (Typ) (V)	Number of Supplies Monitored	Output Driver Type/Reset Output	Time Delay (ms)	VCC (Max) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS3805H33-EP	Enhanced Product Dual Voltage Detectors	3.05	2	Active-low, Push-pull	0	6	-55 to 125	SC70 5	V62/04648-03XE, V62/04648-06XE
TPS3808-EP	Enhanced Product Programmable Delay Supervisory Circuit	Adjustable	1	Active-low, Open-drain	Programmable	6.5	-55 to 125	SOT-23 6	V62/08607-01XE, V62/08607-09XE
TPS3809-EP	Enhanced Product Supply Voltage Supervisor	2.6, 2.9, 4.5	1	Active-low, Push-pull	200	6	-55 to 125	SOT-23 3	V62/06636-01XE, V62/06636-02XE, V62/06636-03XE
TPS3813K33-EP	Enhanced Product Processor Supervisory Circuits With Window-Watchdog	2.93	1	Active-low, Open-drain	25	6	-55 to 125	SOT-23 6	V62/06627-01XE
TPS3836-EP	Enhanced Product Nanopower Supervisory Circuit	2.25, 2.64	1	Active-low, Push-pull	10, 200	6	-55 to 125	SOT-23 5	V62/06637-15XE, V62/06637-17XE
TPS3837K33-EP	Enhanced Product Nanopower Supervisory Circuits	2.93	1	Active-high, Push-pull	10, 200	6	-55 to 125	SOT-23 5	V62/06637-09XE, V62/06637-22XE

LED Driver

Table 55. LED Driver

Part Number	Description	SubFamily	Channels (#)	LED Current per Channel (mA)	Operating Temperature Range (°C)	Package Group	DLA - VID
TLC5940-EP	Enhanced Product 16 Channel LED Driver With DOT Correction and Grayscale PWM Control	Signage LED display drivers	16	120	-40 to 125	HTSSOP 28, VQFN 32	V62/10610-01XE, V62/10610-01YE

DDR Memory

Table 56. DDR Memory

Part Number	Description	Control mode	Output	DDR Memory Type	Vin (Min) (V)	Vin (Max) (V)	Operating Temperature Range (°C)	Package Group	DLA - VID
TPS51116-EP	Enhanced Product DDR1, DDR2, DDR3 Switcher and LDO	Current Mode, D-CAP, S4/S5	VDDQ, VREF, VTT	DDR, DDR2, DDR3, DDR3L, DDR4, LPDDR2, LPDDR3	3	28	-55 to 125	HTSSOP 20	V62/12602-01XE
TPS51216-EP	Enhanced Product DDR2, DDR3/3L Memory Power Solution Synchronous Buck Controller	D-CAP, S4/S5	VDDQ, VREF, VTT	DDR, DDR2, DDR3, DDR3L, LPDDR2, LPDDR3	3	28	-55 to 125	WQFN 20	V62/16601-01XE
TPS51200-EP	Enhanced Product Sink/Source DDR Termination Regulator	D-CAP, S3, S4/S5	VREF, VTT	DDR, DDR2, DDR3, DDR3L, DDR4, LPDDR2, LPDDR3	1.1	3.5	-55 to 125	VSON 10	V62/16610-01XE

Digital Power

Table 57. Digital Power Isolated Controllers

Part Number	Description	Number of Outputs	Compensator	DPWM Resolution (ps)	Non-volatile Memory	Operating Temperature Range (°C)	Package Group	DLA - VID
UCD9222-EP	Enhanced Product Dual Digital PWM System Controller	2	3-pole/3-zero	250	Yes w/ECC	-55 to 115	VQFN 48	V62/13622-01XE
UCD9244-EP	Enhanced Product Quad Digital PWM System Controller	4	3-pole/3-zero	250	Yes w/ECC	-55 to 125	VQFN 64	V62/14603-01XE

Table 58. Digital Power Control Drivers and Powertrain Modules

Part Number	Description	Number of Outputs	VCC (Min) (V)	VCC (Max) (V)	Fall Time (ns)	Rise Time (ns)	Operating Temperature Range (°C)	Package Group	DLA - VID
UCD7242-EP	Enhanced Product Digital Dual Synchronous-Buck Power Driver	2	2.2	18	10	32	-55 to 125	VQFN-HR 32	V62/14601-01XE

Sensors

- **Digital Temperature Sensors**
- **Magnetic Sensor**

Digital Temperature Sensors

Table 59. Digital Temperature Sensors

Part Number	Description	Interface	Remote Channels (#)	Local Sensor Accuracy (Max) (\pm C)	Supply Voltage (Min) (V)	Supply Voltage (Max) (V)	Operating Temperature Range ($^{\circ}$ C)	Package Group	DLA - VID
TMP100-EP	Enhanced Product, Temperature Sensor w/I2C/SMBus	I2C, SMBus, 2-Wire	0	2	2.7	5.5	-55 to 125	SOT-23 6	V62/05618-01XE
TMP121-EP	Enhanced Product, Temperature Sensor w/SPI	SPI, Microwire	0	1.5	2.7	5.5	-40 to 125	SOT-23 6	V62/06608-01XE
TMP122-EP	Enhanced Product, Temperature Sensor w/SPI and Alert	SPI, Microwire	0	1.5	2.7	5.5	-55 to 125	SOT-23 6	V62/09607-01XE
TMP422-EP	Enhanced Product Dual Remote and Local Temperature Sensor	I2C, SMBus, 2-Wire	1	2.5	2.7	5.5	-55 to 125	SOT-23 8	V62/11618-01XE

Magnetic Sensor

Table 60. Magnetic Sensor

Part Number	Description	Vs (Min) (V)	Vs (Max) (V)	Vos (Max) (mV)	GAIN (V/V)	Gain Error Drift (ppm/C)	Operating Temperature Range ($^{\circ}$ C)	Package Group	DLA - VID
DRV401-EP	Enhanced Product, Fluxgate Magnetic Signal Conditioning for Closed-Loop Applications	4.5	5.5	0.1	4	0.1	-55 to 125	SO PowerPAD 20	V62/08630-01XE

Switches and Multiplexers

- [Analog Switches/Muxes](#)
- [Encoders and Decoders](#)

Analog Switches/Muxes

Table 61. Analog Switches/Muxes

Part Number	Description	Configuration	Number of Channels (#)	Vdd (Min) (V)	Vdd (Max) (V)	Bandwidth (MHz)	Operating Temperature Range (°C)	Package Group	DLA - VID
CD74HC4051-EP	Enhanced Product High Speed Cmos Logic Analog Multiplexers/ Demultiplexers	8:1	1	2	6	180	-55 to 125	SOIC 16	V62/03606-01XE
OPA4872-EP	Enhanced Product 4:1 High-Speed Multiplexer	4:1	1	3.5	6	500	-55 to 125	SOIC 14	V62/09616-01XE
SN74CB3Q3306A-EP	Enhanced Product Dual FET 2.5-V/ 3.3-V Low-Voltage High-Bandwidth Bus Switch	1:1 SPST	2	2.3	3.6	500	-55 to 125	TSSOP 8	V62/14606-01XE
SN74CBTLV3257-EP	Enhanced Product Low-Voltage 4-Bit 1-Of-2 FET Multiplexer/ Demultiplexer	2:1 SPDT	4	2.3	3.6	200	-55 to 125	TSSOP 16	V62/08615-01XE
SN74LV4051A-EP	Enhanced Product 8-Channel Analog Multiplexer/ Demultiplexer	8:1	1	2	5.5	35	-40 to 105	SOIC 16, TSSOP 16	V62/03664-01XE, V62/03664-01YE
SN74LV4052A-EP	Enhanced Product Dual 4-Channel Analog Multiplexer/ Demultiplexer	4:1	2	2	5.5	50	-40 to 105	TSSOP 16	V62/03665-01XE
SN74LV4053A-EP	Enhanced Product Triple 2-Channel Analog Multiplexer/ Demultiplexer	2:1 SPDT	3	2	5.5	50	-40 to 105	TSSOP 16	V62/03666-01XE
TS5A3159-EP	Enhanced Product 1-Ohm Spdt Analog Switch	2:1 SPDT	1	1.65	5.5	100	-55 to 125	SOT-23 6	V62/06613-01XE

Encoders and Decoders

Table 62. Encoders and Decoders

Part Number	Description	Technology Family	VCC (Min) (V)	VCC (Max) (V)	Configuration	Channels (#)	Operating Temperature Range (°C)	Package Group	DLA - VID
SN74AHCT138-EP	Enhanced Product 3-Line To 8-Line Decoder / Demultiplexer	AHCT	4.5	5.5	3:8	1	-55 to 125	SOIC 16, TSSOP 16	V62/03655-01XE, V62/03655-01YE
SN74HC253-EP	Enhanced Product Dual 4-Line To 1-Line Data Selectors/ Multiplexers	HC	2	6	4:1	2	-40 to 125	SOIC 16	V62/04699-01XE
SN74LVC138A-EP	Enhanced Product 3-Line To 8-Line Decoder/ Demultiplexer	LVC	2	3.6	3:8	1	-55 to 125	SOIC 16, TSSOP 16	V62/04657-01XE, V62/04657-01YE
SN74LVC157A-EP	Enhanced Product Quadruple 2-Line To 1-Line Data Selector / Multiplexer	LVC	2	3.6	2:1	4	-40 to 125	SOIC 16, TSSOP 16	V62/04659-01XE, V62/04659-01YE
SN74LVC257A-EP	Enhanced Product Quadruple 2-Line To 1-Line Data Selector/ Multiplexer	LVC	2	3.6	2:1	4	-55 to 125	TSSOP 16	V62/04660-01YE, V62/04660-02YE

Important Notice: The products and services of Texas Instruments Incorporated and its subsidiaries described herein are sold subject to TI's standard terms and conditions of sale. Customers are advised to obtain the most current and complete information about TI products and services before placing orders. TI assumes no liability for applications assistance, customer's applications or product designs, software performance, or infringement of patents. The publication of information regarding any other company's products or services does not constitute TI's approval, warranty or endorsement thereof.

All trademarks are the property of their respective owners.

© 2021 Texas Instruments Incorporated



SGZT005C

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2022, Texas Instruments Incorporated