



# Avionics Guide



- Amplifiers
- Data Converters
- Digital Signal Processors
- Interface
- Microcontrollers
- MOSFETs
- Power Management
- Video Decoders



## → Overview

### Enhanced Products (EP) from TI

TI's Enhanced Products portfolio is certified to the Aerospace Qualified Electronic Component (AQEC) standard. This standard was jointly developed by the aerospace and semiconductor industries to define the minimum requirements for commercial off-the-shelf (COTS) components used in defense avionic and aerospace applications.

Analog and embedded processing products are in industry-standard packages and have the benefits of a controlled baseline (one assembly/test site, one fabrication site), extended product change notification, extended temperature performance and qualification pedigree. These products come with the assurance that TI, not a third party, will manufacture to datasheet specifications, guaranteeing performance in environments that require extended temperature ranges (-55°C to 125°C).

#### Enhanced Product qualification pedigree

- Devices are qualified to defense and aerospace standards.
- Reliability and electromigration checks are done at maximum recommended operating conditions in the targeted package.

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- Electrical characterization is performed over the specified temperature range and documented in a stand-alone TI datasheet.
- Nickel-palladium and SnPB lead finish eliminates “tin whisker” reliability issues.

As part of the Enhanced Products service program, reliability and qualification reports are available upon request.

#### What to expect with Enhanced Products by TI

- Controlled baselines
- Standalone datasheet
- Qualification and reliability summary report
- Temperature performance: -55°C to 125°C
- Obsolescence mitigation
- Qualification pedigree

For more information about Avionics products, please visit: [www.ti.com/ep](http://www.ti.com/ep)



## → C6-Integra™ Processor

### C6-Integra™ DSP+ARM Processor OMAP-L138-EP

Get samples, datasheets, evaluation modules and application reports at: [www.ti.com/sc/device/OMAP-L138-EP](http://www.ti.com/sc/device/OMAP-L138-EP)

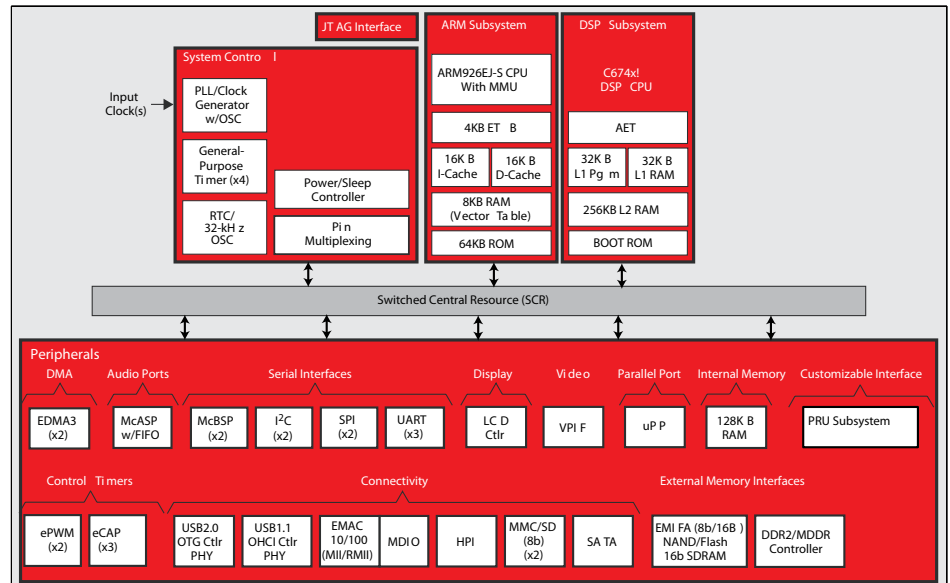
#### Key Features:

- Supports TI's basic secure boot
- Enhanced direct-memory-access controller (EDMA3)
- Serial ATA (SATA) controller
- DDR2/mobile DDR memory controller
- Two multimedia card (MMC)/secure digital (SD) card interface
- LCD controller
- Video port interface (VPIF)
- 10/100 Mb/s ethernet MAC (EMAC)
- Lead BGA package
- -55°C to 125°C

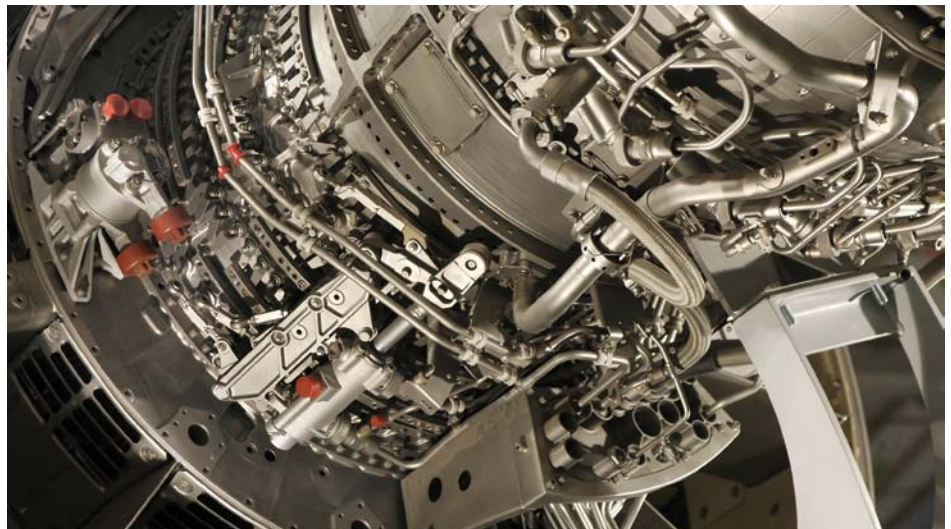
This processor is a low-power applications processor based on an ARM926EJ-S and a C674x DSP core. It provides significantly lower power than other members of the TMS320C6000 platform of DSPs.

The device enables OEMs and ODMs to quickly bring to market devices featuring robust operating systems support, rich user interfaces, and high processing performance life through the maximum flexibility of a fully integrated mixed processor solution.

The dual-core architecture of the device provides benefits of both DSP and Reduced Instruction Set Computer (RISC) technologies, incorporating a high-performance TMS320C674x™ DSP core and an ARM926EJ-S core.



OMAP-L138-EP block diagram.



# Featured Enhanced Products

## → Microcontrollers

### 16-Bit Ultra-Low-Power Microcontroller, 2kB Flash, 128B RAM, 16-Bit Sigma-Delta A/D MSP430F2013-EP

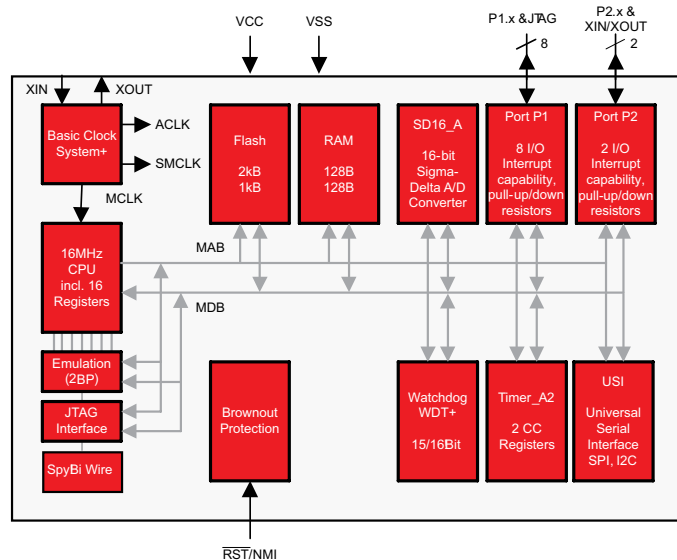
Get samples, datasheets, evaluation modules and application reports at: [www.ti.com/sc/device/MSP430F2013-EP](http://www.ti.com/sc/device/MSP430F2013-EP)

#### Key Features:

- Low supply voltage range: 1.8 V to 3.6 V
- Ultra-low power consumption
  - Active mode: 220  $\mu$ A at 1 MHz, 2.2 V
  - Standby mode: 0.5  $\mu$ A
  - Off mode (RAM retention): 0.1  $\mu$ A
- Five power-saving modes
- Ultra-fast wake-up from standby mode in less than 1  $\mu$ s
- 16-bit RISC architecture, 62.5-ns instruction cycle time
- 16-bit Timer\_A with two capture/compare registers
- 16-bit sigma-delta A/D converter with differential PGA inputs and internal reference
- 2KB + 256B flash memory; 128B RAM
- -40°C to 125°C

This device features a powerful 16-bit RISC CPU, 16-bit registers, and constant generators that contribute to maximum code efficiency. The digitally controlled oscillator (DCO) allows wake-up from low-power modes to active mode in less than 1  $\mu$ s.

The MSP430F2013 is an ultra-low-power mixed signal microcontroller with a built-in 16-bit timer and ten I/O pins. In addition, the MSP430F2013 has a built-in communication capability using synchronous protocols (SPI or I2C) and a 16-bit sigma-delta A/D converter.



MSP430F2013-EP block diagram.



# Featured Enhanced Products

## ➔ Digital Isolator

### Quad Channel, 3/1, 1 Mbps, Digital Isolator

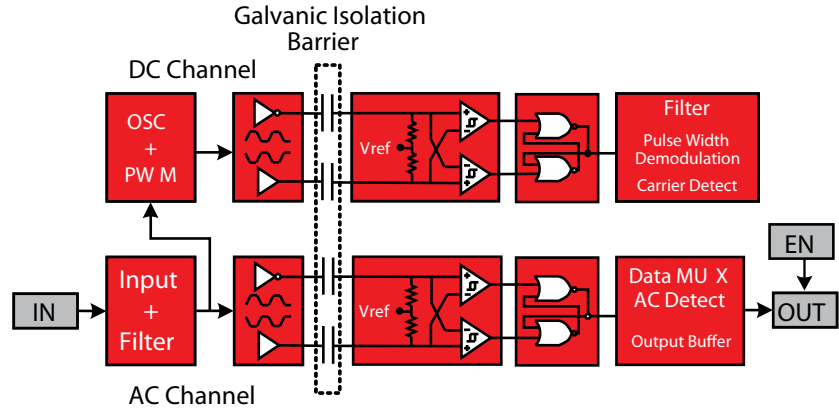
#### ISO7241A-EP

Get samples, datasheets, evaluation modules and application reports at: [www.ti.com/sc/device/ISO7241A-EP](http://www.ti.com/sc/device/ISO7241A-EP)

#### Key Features:

- 4000-V<sub>peak</sub> isolation, 560-V<sub>peak</sub> V<sub>IORM</sub>
  - UL 1577, IEC 60747-5-2 (VDE 0884, Rev 2), IEC 61010-1, IEC 60950-1 and CSA approved
- 4-kV ESD protection
- Operates with 3.3-V or 5-V supplies
- Typical 25-year life at rated working voltage
- High electromagnetic immunity
- -55°C to 125°C

The ISO7241A is a quad-channel digital isolator with multiple channel configurations and output enable functions. This device has logic input and output buffers separated by TI's silicon dioxide (SiO<sub>2</sub>) isolation barrier. Used in conjunction with isolated power supplies, this device blocks high voltage, isolate grounds, and prevent noise currents from entering the local ground and interfering with or damaging sensitive circuitry.



ISO7241A-EP block diagram.

## ➔ Step-Down Converter

### 5.5 V to 36 V Input, 5A, 500-kHz Step-Down Converter

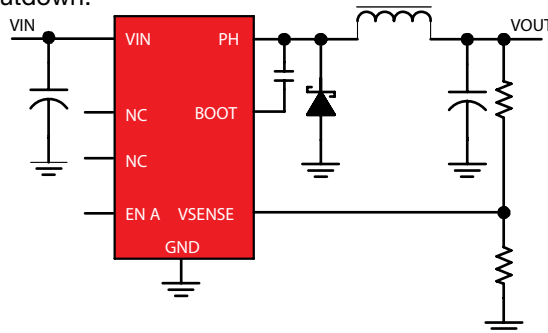
#### TPS5450-EP

Get samples, datasheets, evaluation modules and application reports at: [www.ti.com/sc/device/TPS5450-EP](http://www.ti.com/sc/device/TPS5450-EP)

#### Key Features:

- Wide input voltage range: 5.5 V to 36 V
- Up to 5-A continuous (6-A peak) output current
- High efficiency greater than 90% enabled by 110-mΩ integrated MOSFET switch
- Wide output voltage range: adjustable down to 1.22 V with 1.5% initial accuracy
- Internal compensation minimizes external parts count
- Fixed 500-kHz switching frequency for small filter size
- 18-μA shutdown supply current
- -55°C to 125°C

As a member of the SWIFT™ family of DC/DC regulators, the TPS5450 is a high-output-current PWM converter that integrates a low-resistance high-side N-channel MOSFET. Included on the substrate with the listed features are a high-performance voltage error amplifier that provides tight voltage regulation accuracy under transient conditions, an undervoltage-lockout circuit to prevent start-up until the input voltage reaches 5.5 V, an internally set slow-start circuit to limit inrush currents, and a voltage feed-forward circuit to improve the transient response. Using the ENA pin, shutdown supply current is reduced to 18 μA typically. Other features include an active-high enable, overcurrent limiting, overvoltage protection, and thermal shutdown.



TPS5450-EP block diagram.

# Featured Enhanced Products

## → Quad ADC

### Low-Power, High-Performance Quad 14-Bit 125-MSPS ADC

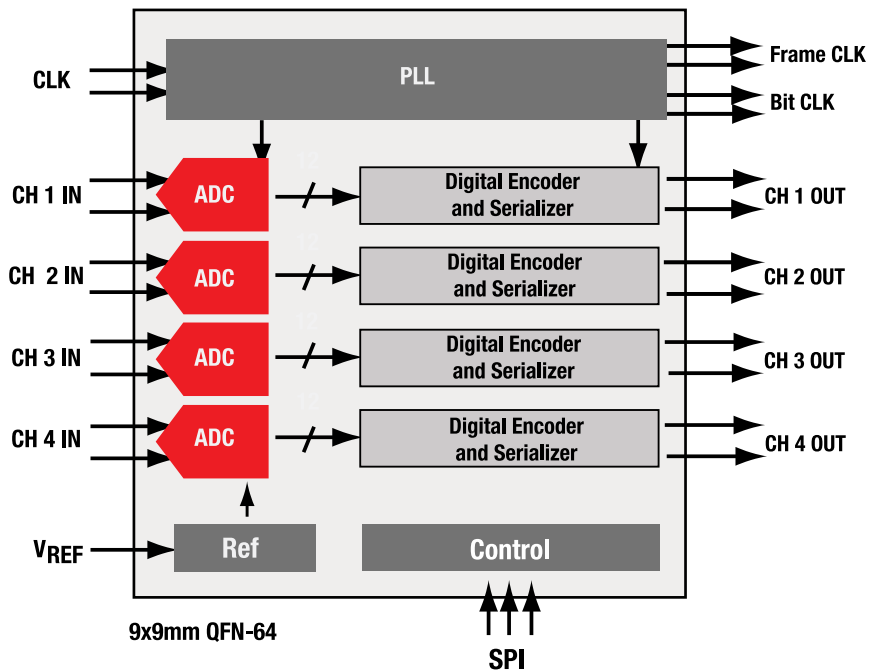
#### ADS6445-EP

Get samples, datasheets, evaluation modules and application reports at: [www.ti.com/sc/device/ADS6445-EP](http://www.ti.com/sc/device/ADS6445-EP)

#### Key Features:

- Low total power dissipation: 420 mW/Ch
- SINAD: 67.9 dBFS at 170 MHz
- SNR: 69.9 dBFS at 170 MHz
- SFDR: 76 dBc at 170 MHz
- Serialized LVDS output
- Temperature range (Tj): -55°C to +125°C

The ADS6445-EP is a high-performance, 14-bit 125-/105-/80-/65-MSPS quad channel A/D converter. Serial LVDS data outputs reduce the number of interface lines, resulting in a compact 64-pin QFN package (9 mm × 9 mm) that allows for high system integration density. The device includes a 3.5 dB coarse gain option that can be used to improve SFDR performance with little degradation in SNR. In addition to the coarse gain, fine gain options also exist, programmable in 1 dB steps up to 6 dB.



ADS6445-EP block diagram.



# Featured Enhanced Products

## → 32-Bit Microcontroller

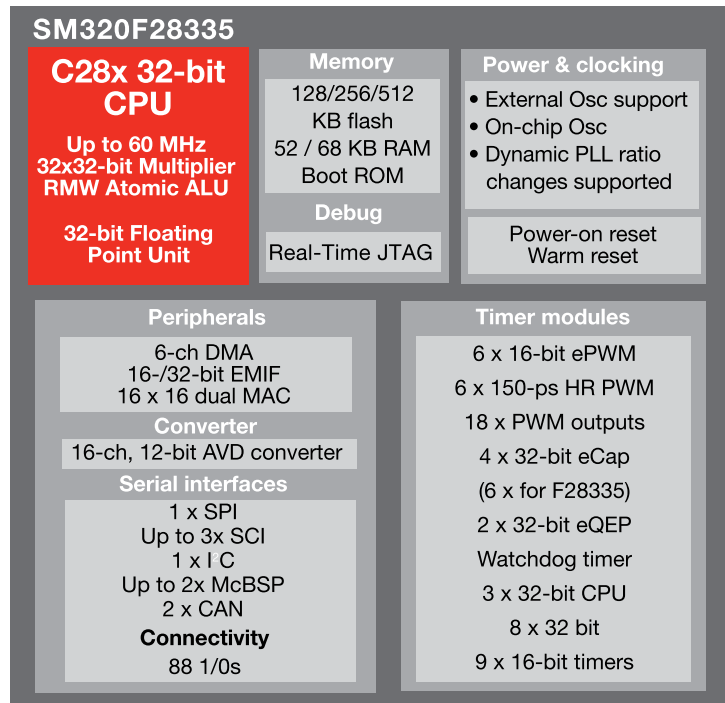
### 150-MHz, 32-Bit Microcontroller with Flash SM320F28335-EP

Get samples, datasheets, evaluation modules and application reports at: [www.ti.com/sc/device/SM320F28335-EP](http://www.ti.com/sc/device/SM320F28335-EP)

#### Key Features:

- 150-MHz/300-MFLOPS C28x™ 32-bit CPU
- 32-bit floating point unit
- Single 3.3-V supply, (1.9/1.8-V Core)
- No power sequencing required
- Power-on reset
- Packages
  - 176-pin/ball PTP (PQFP): 26.0 mm x 26.0 mm with PowerPad™ integrated circuit package
  - 179-ball GHH (PBGA): 12.0 mm x 12.0 mm Pb solder balls
- -55°C to 125°C

The SM320F28335-EP is a highly integrated, high-performance solution for demanding control applications. This device has enhanced control peripherals, advanced emulation features and low-power modes and power savings.



SM320F28335-EP block diagram.



# Selection Tables

## → Embedded Processing

Device Name	DSCC Vendor Item Drawing	Description	Temp Range
<b>Microcontrollers</b>			
MSP430F2618TGQWTEP	V62/09620-01XA	16-Bit Ultra-Low-Power MCU, 92 KB Flash, 8 KB RAM, 12-Bit ADC, Dual DAC, 2 USCI	T-Temp
MSP430F249MPMEP	V62/09601-01XE	16-bit Ultra-Low-Power Micro controller, 60 kB Flash, 2K RAM	M-Temp
MSP430F2274MDATEP	V62/08631-01YE	16-bit Ultra-Low-Power Micro controller, 32 kB Flash, 1K RAM	M-Temp
MSP430F2274MRHATEP	V62/08631-01XE	16-bit Ultra-Low-Power Micro controller, 32 kB Flash, 1K RAM	M-Temp
MSP430F2013QRSATEP	V62/11613-01XE	16-bit Ultra-Low-Power Microcontroller, 2 kB Flash, 128B RAM, 16-Bit Sigma-Delta A/D	Q-Temp
<b>OMAP™</b>			
SMOMAPL138BGWTA3R	NA	Low-Power Applications Processor	T-Temp
OMAP3503DZCBCS	NA	High-Performance, Applications Processor	I-Temp
OMAP3525DZCBCA	NA	Applications Processors	T-Temp
OMAP3530DZCBBA	NA	Applications Processors	T-Temp
<b>DSP</b>			
SM320DM6446AZWTA	NA	DaVinci Digital Media System-on-Chip	T-Temp
SM320C6472EGTZA6	NA	Fixed-Point Digital Signal Processor	-45C/100C
SM320DM642AGDKS7EP	V62/07644-04XA	Video/Imaging Fixed-Point Digital Signal Processor	-55C/105C
SM320F2801PZMEP	V62/06619-03XE	High Performance 32-bit Controllers	M-Temp
SM320F2808PZMEP	V62/06619-01XE	High Performance 32-bit Controllers	M-Temp
SM320F2812GHHMEP	V62/05601-03XA	Fixed-point, Enhanced Plastic, 150 MHz	M-Temp
SM320F28335PTMEP	V62/09624-01YE	Defino Digital Microcontroller	M-Temp

## → Data Converters

Device Name	DSCC Vendor Item Drawing	Description	Temp Range
PCM4104IPFBREP	V62/07643-01XE	High-Performance, 24-Bit, 216-kHz Sampling, Four-Channel Audio DAC	I-Temp
PCM4202IDBREP	V62/07642-01XE	High-Performance, 24-Bit, 216-kHz Sampling Stereo Audio ADC	I-Temp
ADS1258MPHPTEP	V62/09626-01YE	16-Channel, 125-Ksps 24-Bit ADC	M-Temp
ADS6445MRGCTEP	V62/08628-01XE	4-Channel, 14-Bit, 125-MSPS ADC with Serial LVDS Outputs	M-Temp
ADS5463MPFPEP	V62/07607-01XE	12 Bit 500-MSPS ADC	M-Temp
ADS5500MPAPREP	V62/05613-01XE	14-Bit, 125-MSPS, Low Pwr & Superior AC Performance	M-Temp
ADS7887MDBVT	NA	10-Bit 1.25-MSPS Micro-Power Miniature SAR ADC	M-Temp
DAC5675MPHPREP	V62/05619-01XE	14-Bit, 400-MSPS DAC w/LVDS	M-Temp
DAC5687MPZPEP	V62/06650-01XE	16-Bit 500-MSPS DAC	M-Temp
DAC8830MCDREP	V62/06671-01XE	16-Bit, Ultra-Low Power, DAC	M-Temp
DAC8831MCDREP	V62/06671-03YE	16-Bit, Ultra-Low Power, DAC	M-Temp
THS8200IPFPEP	V62/10604-01XE	Triple 10 Bit All Format Video DAC	I-Temp
<b>Video Decoder</b>			
TVP5150AM1MPBSREP	V62/08626-01XE	Ultra-Low Power NTSC/PAL/SECAM Video Decoder	M-Temp

## → Interface

Device Name	DSCC Vendor Item Drawing	Description	Temp Range
ISO721MMDREP	V62/08627-01XE	Enhanced Product Single 150-Mbps Digital Isolator	M-Temp
ISO7241AMDWREP	V62/10606-01XE	Quad Channel, 3/1, 1 MBps, Digital Isolator	M-Temp
AM26C31MDREP	V62/07647-01XE	Quadruple Differential Line Driver	M-Temp
AM26C32MDREP	V62/07648-01XE	Quadruple Differential Line Receiver	M-Temp
PCI1520IPDVEP	V62/04613-01YE	PC Card Controller	I-Temp
SN65HVD1050MDREP	V62/07608-01XE	EMC Optimized CAN Transceiver	M-Temp
SN65HVD33MDREP	V62/06634-04YE	3-V Full-Duplex RS-485 Driver and Receiver	M-Temp
SN65LV1023AMDBREP	V62/06677-01XE	10:1 LVDS Serdes Transmitter 100-660 Mbps	M-Temp
SN65LV1224BMDDBREP	V62/06677-02XE	1:10 LVDS Serdes Receiver 100-660 Mbps	M-Temp
SN65LVDS179MDGKREP	V62/07612-03NE	High-Speed Differential Line Drivers and Receivers	M-Temp
SN65LVDS33MDREP	V62/05614-01XE	Quad LVDS Receiver with -4 to 5 V Common-mode Range	M-Temp
SN65LVDT14QPWREP	V62/05615-01XE	Interface Extension LVDS Single Driver+Quad Receiver in one package	Q-Temp
SN65LVDT41QPWREP	V62/05615-02XE	Interface Extension LVDS Quad Driver+Single Receiver in one package	Q-Temp
TL16C752BTPTREP	V62/03626-01XE	Dual UART With 64-Byte FIFO	T-temp



# Selection Tables

## → Interface (continued)

Device Name	DSCC Vendor Item Drawing	Description	Temp Range
TFP401AMPZPEP	V62/09627-01XE	PanelBus DVI Receiver, 165 MHz, HSYNC fix	M-Temp
TFP410MPAPREP	V62/06653-01XE	PanelBus DVI Transmitter, 165 MHz	M-Temp
<b>UBT</b>			
CVMEH22501AIDGGREP	V62/05606-01XE	8-Bit Universal Bus Transceiver & Two 1-Bit Bus Transceivers	I-Temp

## → Amplifiers and Linear

Device Name	DSCC Vendor Item Drawing	Description	Temp Range
<b>Temperature Sensor</b>			
TMP121AQDBVREP	V62/06608-01XE	1.5°C Accurate Digital Temperature Sensor w/SPI Interface	Q-Temp
TMP122AMDBVTEP	V62/09607-01XE	1.5°C Accurate Programmable Temperature Sensor with SPI Interface	M-Temp
<b>Clock Drivers</b>			
CDC2351MDBREP	V62/04757-01XE	1-Line to 10-Line Clock Driver w/3-State Outputs	M-Temp
CDCP1803MRGETEP	V62/09619-01XE	1:3 LVPECL Clock Buffer with Programable Divider	M-Temp
<b>LED Drivers</b>			
TLC5940QPWPREP	V62/10610-01XE	16-Channel LED Driver with DOT Correction and Grayscale PWM Control	Q-Temp
<b>Op Amps</b>			
DRV401AMDWPREP	V62/08630-01XE	Sensor Signal Conditioning for Closed-Loop Magnetic Current Sensor	M-Temp
TLE2141MDREP	V62/08620-01XE	Enhanced Product Excaliber Low-Noise High-Speed Precision Operational Amplifier	M-Temp
INA129MDREP	V62/10605-01XE	Low Power Instrumentation Amplifier	M-Temp
INA159AMDGKTEP	V62/09613-01XE	High-Speed, Precision, Gain of 0.2 Level Translation Difference Amplifier	M-Temp
INA193AMDBVREP	V62/07638-01XE	Current Shunt Monitor -16 V to +80 V Common-Mode Range	M-Temp
LM258AMDREP	V62/06622-04XE	Quadruple Operational Amplifier	M-Temp
OPA2333AMDREP	V62/07633-02ZE	1.8-V, Dual Micropower CMOS Operational Amplifiers Zero-Drift Series	M-Temp
OPA2234MDR	NA	Dual High Precision Auto-Zero Op-Amp	M-Temp
OPA333AMDBVREP	V62/07633-01XE	1.8-V, Micropower CMOS Operational Amplifiers Zero-Drift Series	M-Temp
OPA333AMDCKREP	V62/07633-01YE	1.8-V, Micropower CMOS Operational Amplifiers Zero-Drift Series	M-Temp
OPA336MDBVREP	V62/06641-01XE	Op Amp Low Power CMOS	M-Temp
OPA340MDBVTEP	V62/06641-01XE	Single-Supply, Rail-to-Rail Operational Amplifiers MicroAmplifier™ Series	M-Temp
TLV4113MDGQREP	V62/06646-04ZE	High Output Drive OpAmp w/Shutdown	M-Temp
<b>Switch</b>			
TS5A3159MDBVREP	V62/06613-01XE	1-Ω SPDT Analog Switch	M-Temp
<b>MUX</b>			
OPA4872MDREP	V62/09616-01XE	4:1 High-Speed Multiplexer	M-Temp

## → Power Management

Device Name	DSCC Vendor Item Drawing	Description	Temp Range
<b>MOSFET Drivers</b>			
TPS2818MDBVREP	V62/08601-03XE	Enhanced Product Single High-Speed Mosfet Driver	M-Temp
TPS2819MDBVREP	V62/08601-03XE	Enhanced Product Single High-Speed Mosfet Driver	M-Temp
UCC27423MDREP	V62/07624-02YE	Dual 4-A MOSFET Driver with Enable	M-Temp
UCC27322TDGKREP	V62/11601-01XE	Single 9-A High Speed Low-Side MOSFET Driver With Enable	T-Temp
UCC27424MDGNREP	V62/07624-01XE	Dual 4A MOSFET Driver	M-Temp
<b>Motor Controller</b>			
UC2625MDWREP	V62/08624-01YE	Enhanced Product Brushless DC Motor Controller	M-Temp
<b>DC/DC Converters</b>			
TPS54310MPWPREP	V62/08606-01XE	3 V To 5 V Input, 3-A Output Synchronous Buck PWM Switcher With Integrated FETs	M-Temp
TPS40200MDREP	V62/07618-01XE	Wide-Input-Range Nonsynchronous Voltage-Mode Controller	M-Temp
TPS5420MDREP	V62/07613-01XE	5.5 V to 36 V Input, 2-A, 500-kHz St Down SWIFT™ Converter	M-Temp
TPS5430MDDAREP	V62/09625-01XE	5.5 V to 36 V Input, 3-A, 500-kHz St Down SWIFT™ Converter	M-Temp
TPS5450MDDAREP	V62/90644-01XE	5.5 V to 36 V Input, 5-A, 500-kHz Shut Down SWIFT™ Converter	M-Temp
TPS62110MRSAREP	V62/07622-01XE	17-V, 1.5-A Synchronous St-Down Converter	M-Temp
TPS62112MRSAREP	V62/07622-03XE	17-V, 1.5-A Synchronous St-Down Converter	M-Temp
TPS5120MDBTREP	V62/04645-02XE	Dual Output Two-Phase Synchronous Buck Controller	M-Temp
TPS54680QPWPREP	V62/04641-01XE	Low Input Voltage 6 A Synchronous Buck Switcher	Q-Temp

# Selection Tables

## → Power Management (continued)

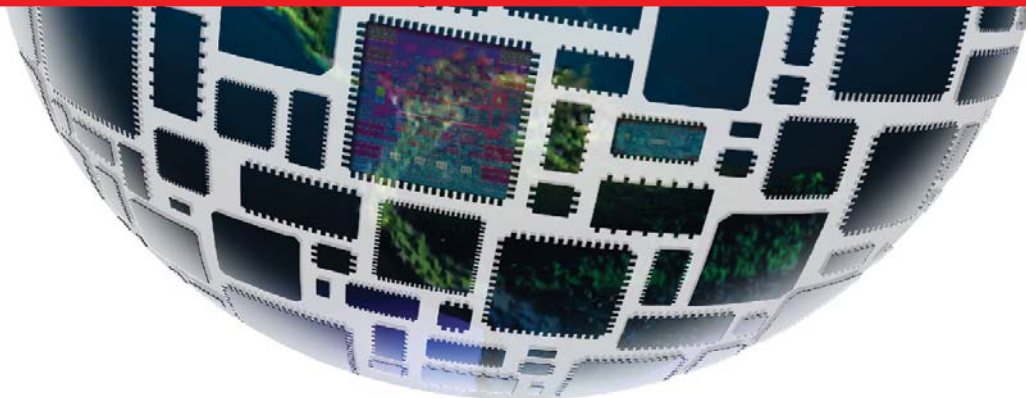
Device Name	DSCC Vendor Item Drawing	Description	Temp Range
<b>Supervisors</b>			
TLC7701MPWREP	V62/04604-04XE	Voltage Supervisor (customizable)	M-Temp
TPS3106K33MDBVREP	V62/06643-07XE	Ultra-Low Supply-Current/Supply-Voltage Suprv Circuits	M-Temp
TPS3307-18MDREP	V62/03629-01XE	Triple Processor Supervisors	M-Temp
TPS3307-33MDGNREP	V62/03629-02YE	Triple Processor Supervisors	M-Temp
TPS3619-33MDGKREP	V62/06670-01XE	Backup-Battery Supervisors for RAM Retention	M-Temp
TPS3803-01MDCKREP	V62/04648-04XE	Processor Supervisory Circuit	M-Temp
TPS3803G15MDCKREP	V62/04648-05XE	Processor Supervisory Circuit	M-Temp
TPS3805H33MDCKREP	V62/04648-06XE	Processor Supervisory Circuit	M-Temp
TPS3809I50MDBVREP	V62/06636-03XE	Supply Voltage Supervisory Circuit	M-Temp
<b>Voltage Reference</b>			
TL1431MDREP	V62/04756-02XE	Precision Programmable Reference	M-Temp
REF3212AMDBVREP	V62/07602-01XE	1.25-V, 4ppm/°C, 100-uA SOT23-6 Series (Bandgap) Voltage Reference	M-Temp
REF3220AMDBVREP	V62/07602-05XE	4-ppm/°C 100-uA SOT23-6 Series Voltage Reference	M-Temp
REF3225AMDBVREP	V62/07602-02XE	4-ppm/°C 100-uA SOT23-6 Series Voltage References	M-Temp
REF3230AMDBVREP	V62/07602-03XE	4-ppm/°C 100-uA SOT23-6 Series Voltage References	M-Temp
REF3233AMDBVREP	V62/07602-06XE	4-ppm/°C 100-uA SOT23-6 Series Voltage References	M-Temp
REF3240AMDBVREP	V62/07602-04XE	4-ppm/degreesC 100-uA SOT23-6 Series Voltage Reference	M-Temp
REF5020MDREP	V62/10613-01XE	Low Noise, Very Low Drift, Precision Voltage Reference	M-Temp
REF5040MDREP	V62/10613-02XE	Low Noise, Very Low Drift, Precision Voltage Reference	M-Temp
REF5050MDREP	V62/10613-03XE	Low Noise, Very Low Drift, Precision Voltage Reference	M-Temp
REF5025MDREP	V62/10613-04XE	Low Noise, Very Low Drift, Precision Voltage Reference	M-Temp
<b>Voltage Regulators</b>			
TPS70345MPWPREP	V62/06616-01XE	Dual-Output Low-Dropout Voltage Regulators w/Power Up Sequencing	M-Temp
TPS70751MPWPREP	V62/07610-01XE	Dual-Output LDO Voltage Regulator w/ Power-Up Sequencing	M-Temp
TPS71202MDRCREP	V62/08621-01XE	Dual, 250-mA Output, Ultra-Low Noise, High PSRR, Low-Dropout, Linear Regulator	M-Temp
TPS71501MDCKREP	V62/08619-01XE	50-mA, 24-V, 3.2-uA Supply Current, Low Dropout, Linear Regulator	M-Temp
TPS72118MDBVREP	V62/07636-01XE	Low Input Voltage, Cap Free 150-mA Low-Dropout Linear Regulator	M-Temp
TPS73101MDBVREP	V62/06652-01XE	Enhanced Plastic Low Drop Out Regulator	M-Temp
TPS73601MDCQREP	V62/06626-01YE	Cap-Free, NMOS, 400 mA Low Dropout Regulator with Reverse Current Protect	M-Temp
TPS74401MRGWREP	V62/10611-01XE	Single Output LDO, 3.0A, Adj (0.8 to 3.3 V), Fast Trans. Resp. Prgrammable	M-Temp
TPS75003MRHLREP	V62/07614-01XE	Triple-Supply Power Management IC for Powering FPGAs and DSPs	M-Temp
TPS75125MPWPREP	V62/03636-14XE	Fast-Trans-Resp 1.5-A LDO V-Reg w/Power Good	M-Temp
TPS75201MPWPREP	V62/03635-11XE	Fast-Transient-Response 2A LDO	M-Temp
TPS767D301MPWPREP	V62/06617-01XE	Dual-Output Low-Dropout Voltage Regulators	M-Temp
TPS76901SDBVTEP	V62/10607-01XE	Ultra-Low Power 100 mA Low Dropout Linear Regulators	M-Temp
TPS77401MDGKREP	V62/06663-01XE	250-mA LDO Voltage Regulator With Power-Good Output	M-Temp
TPS77501MPWPREP	V62/03631-01XE	500-mA LDO Voltage Regulator	M-Temp
TPS79101DBVREP	V62/03644-01YE	Ultra-Low Noise High PSRR 100 mA	Q-Temp

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<b>Note:</b> The European Free Call (Toll Free) number is not active in all countries. If you have technical difficulty calling the free call number, please use the international number above.	
Fax	+ (49) (0) 8161 80 2045
Internet	support.ti.com/sc/pic/euro.htm
Direct Email	asktexas@ti.com

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New Zealand	0800-446-934
Philippines	1-800-765-7404
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