

Texas Instruments Semiconductor Product Linecard

Featured Products

Amplifiers and Linear

INA200	High-Side Measurement Current-Shunt Monitor with Comparator and Reference
LMV982	Dual 1.8-V Op Amp with RRIO and Shutdown
OPA365	Zero-Crossover Rail-to-Rail Op Amp
OPA875	Single 2:1 High-Speed Video Multiplexer
THS4520	Rail-to-Rail Output Wideband Fully Differential Amplifier
TLV341	Low-Voltage, RRO CMOS Op Amp with Shutdown
TMP411	±1degC Remote and Local Temperature Sensor
TPA6130A2	138-mW DirectPath™ Stereo Headphone Amplifier with I²C Volume Control

Digital Signal Processors (DSP)

TMS320DM643x	Low-cost DaVinci™ processor based on the TMS320C64x™+ DSP core
TMS320DM644x	Highly integrated DaVinci™-based SoC with an ARM926 processor TMS320C64x+ DSP core

Data Converters

ADS1000	Low Cost 12-Bit ADC with I²C Interface
ADS5463	12-Bit, 500 MSPS ADC with Buffered Input
ADS5547	14-Bit 210 MSPS ADC with LVDS/CMOS Outputs
ADS8330	Low-Power 16-Bit 1-MHz Single/Dual Unipolar Input ADC w/Serial Interface
DAC2932	40-MSPS 12-Bit dual DAC w/ Integrated Control DAC and 29-mW Power
DAC5672	275-MSPS 14-Bit Dual DAC
DAC5687	500-MSPS 16-Bit dual interpolating DAC with IQ correction
DAC8560	16-Bit, Ultra-Low Glitch, Voltage Output DAC with 2.5-V, 2ppm/°C Internal Reference
TSC2005	Chip-Scale Touch-Screen Controller with SPI Interface

Interface

IS0721	3.3-V / 5-V High-Speed Digital Isolator
SN65HVD3080E	Low-Power RS-485 Full-Duplex Drivers/Receivers
SN65LVDS250	2Gbps 4x4 Crosspoint Switch with LVDS Outputs
SN65MLVD128	LVTTL to M-LVDS 1:8 Clock Fanout Buffer
SN74ASSTUB32866	25-Bit Configurable Registered Buffer with Address-Parity Test
TLK1211	Single-Channel Gigabit Ethernet Serdes (0.6-1.3-Gbps)
TMDS341A	3:1 HDMI Switch
TRS3243E	3-V to 5.5-V Multi-Channel RS-232 Line Drivers/Receivers with ±15-kV IEC ESD Protection
TRS3318	2.5-V 460-Kbps RS-232 Transceiver with ±15 KV ESD Protection
XIO1100	x1 PCI Express PHY with PIPE Interface
XIO2000A	PCIe to PCI Bridge
XIO2200A	x1 PCI Express to a Two-Port 1394a Device

Switches & Multiplexers

TS5A23166	0.9-Ω Dual SPST 5-V/3.3-V, 2-Channel Analog Switch
TS5A3159A	SPDT Analog Switch
TS5A6542	0.75-Ω SPDT Analog Switch with Input Logic Translation

Logic

PCA9539	Remote 16-Bit I2C and SMBus, Low-Power I/O Expander with Interrupt Output, Reset and Configurable Registers
PCF8574	Remote 8-Bit I/O Expander for I²C-Bus
SN74AUP1T97	Single-Supply Voltage Translator
SN74AVC16T245	16-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation and 3-State Outputs
SN74AVC2T45	2-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation and 3-State Outputs

Microcontrollers

MSP430F169	16-Bit Ultra-Low-Power MCU, 60-kB Flash, 2048-B RAM, 12-Bit ADC, Dual DAC, 2 USART, I²C, HW Multiplier, DMA
MSP430F2013	16-Bit Ultra-Low-Power Microcontroller, 2-kB Flash, 128-B RAM, 16-Bit Sigma-Delta A/D, USI for SPI/I²C
MSP430F2131	16-Bit Ultra-Low-Power Microcontroller, 8k-B Flash, 256-B RAM, Comparator
MSP430F449	16-Bit Ultra-Low-Power MCU, 60-kB Flash, 2048-B RAM, 12-Bit ADC, 2 USARTs HW Multiplier, 160 Segment LCD
MSP430FG4619	16-Bit Ultra-Low-Power MCU, 120-KB Flash, 4096-B RAM, 12-Bit ADC, Dual DAC, DMA, 3 OPAMP, 160 Segment LCD

Power Management

BQ24060	Linear 1-Cell Li-Ion Charger w/Thermal Regulation, 6.5-V OVP, Temperature Sense
LM4040	Precision Micro-Power Shunt Voltage Regulators
MC33063A	1.5-A Peak Boost/Buck/Inverting Switching Regulator
PTEA404120	50-W, 48-V Input, 12-V Output, Isolated DC/DC Converter
TPS40200	Wide-Input Non-Synchronous Buck DC/DC Controller
TPS5430	Easy-to-Use 5.5 to 36-V Input, 3-A Step-Down Converter
TPS62400	Dual, Adjustable, 400-mA and 600-mA, 2.25-MHz Step-Down Converter with 1-Wire Interface in QFN
TPS65050	6-Channel Power Management IC with 2 DC/DCs, 4 LDOs, in 4x4mm QFN

RF/IF

CC1000	Highly Integrated Multi-Channel RF Transceiver Designed for Low-Power Wireless Applications
CC2500	Low-Cost, Low-Power 2.4-GHz RF Transceiver Designed for Low-Power Wireless Applications in 2.4-GHz ISM Band
GC5016	Multi-Standard, Wide Bandwidth Digital Up and Down Converter
TRF3703	Multi-Standard wideband 400-MHz – 4-GHz IQ modulator
TRF3761-B	Low-Noise Integer N PLL Frequency Synthesizer with Integrated VCO

Product Support

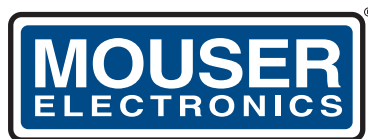
- Trained Support Staff
- Seminars and Online Training
- Online KnowledgeBase
- Product Information Centers

Application/Product Info

- End-Equipment Solutions Guides
- Product Selection Guides
- System Block Diagrams
- e-Newsletters
- Analog Applications Journal
- Application Notes
- Detailed Product Datasheets

Design Tools & Software

- FilterPro™ Software
- TINA-TI™ SPICE Simulation Tool
- SWIFT™ Software (Power Management)
- Product-Level SPICE Macro Models
- Analog eLAB™ Design Center
- Code Composer Studio™ IDE
- DSP Starter Kits and Evaluation Modules
- eXpressDSP™ Digital Media Software
- DSP Third Party Network Products
- MSP430 eZ430-F2013 Development Tool



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Product Selection Guides:

- Amplifier and Data Converter
- DSP
- Interface
- Logic
- Low-Power RF
- MSP430
- Power Management



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The Newest Products For Your Newest Designs

Texas Instruments Semiconductors Product Tree

Amplifiers and Linear

- Op Amps**
 - High-Speed Amplifiers (Greater than or equal to 50-MHz)
 - Operational Amplifiers
- Comparators**
- Current Sensing
- Difference Amplifiers
- Instrumentation Amplifiers
- Isolation Analog Amplifiers
- LCD Gamma Buffers
- Logarithmic Amplifiers
- Sensors, Sensor Conditioning,

- 4-20mA Transmitters**
 - 4-20mA Transmitters
 - Active Filters
 - Sensor Conditioning
- Solenoid/Valve Power Drivers (PWM) TEC and Pump Laser Bias**
- Video Amplifiers with Integrated Filter**

Audio

- Audio Amplifiers**
 - Class-AB Speaker Amplifiers
 - Digital Amplifier Solutions
 - Class-D Speaker Amplifiers
 - PurePath™ Power Stages
 - PurePath™ PWM Controllers
- Headphone Amplifiers**
- Line Drivers / Receivers**
- Microphone Preamplifiers**
- Signal Conditioning Amplifiers**
- Volume Controls**
- Audio Clocks**
- Audio Converters and CODECs**
 - Analog to Digital (ADCs)
 - CODECs
 - Digital to Analog (DACs)
- Digital Audio Interface**
 - Digital Audio Receivers
 - Digital Audio Transceivers
 - Digital Audio Transmitters
 - Lip Sync Delay ICs
 - Sample-Rate Converters
 - USB-Streaming Controllers
- Digital Audio Processors**
 - TMS320C67x™ DSPs
 - TMS320C62x™ DSPs

Clocks and Timers

- Clock Circuits**
 - Clock Buffers PLL
 - 0 Delay PLL
 - Differential
 - Single Ended
 - Phase Aligner
 - Multiplier/Divider
 - Clock Buffers (Non-PLL)
 - Differential
 - Single Ended
- Mixed Differential/Single Ended**
- Clock Generators**
 - Programmable/Spread
 - Spectrum Clocking
 - Non-VCXO
 - Motherboard
- Clock Synthesizers/Jitter Cleaners**
 - External VCO/VCXO
- Oscillator ICs**
 - PLL
- RF Synthesizers**
- Real-Time Clocks**
- Memory Interface Clocks and Registers**
 - SDR
 - DDR PLL
 - DDR2 PLL
 - DDR2 Register
 - DDR3 Register
 - RAMBUS/XDR
- Digital Media Systems Clocks**
 - DSP and DaVinci™ DSP Clocks
 - Office Automation Clocks
- Data Communications Clocks**
- Wireless Base Station Clocks**
 - TRX ADC/DAC Frequency
 - Synthesizers/Jitter Cleaners
 - Baseband Card
- Timers**

Data Converters

- Analog Monitor and Control Circuitry**
- Analog to Digital Converters**
- Digital to Analog Converters**
- MicroSystem Mixed-Signal Data Converters**
- Touch-Screen Controllers**
 - Touch-Screen Controllers Only
- Touch-Screen Controllers with Audio**

Interface

- 1394**
 - 1394 Integrated Devices
 - 1394 Link-Layer Controllers
 - 1394 Physical-Layer Controllers
- CAN**
- Display Interface**
 - DVI/HDMI Repeaters/Switches
 - FlatLink™ (LVDS for LCD)
 - PanelBus™ (DVI)
- PC**
 - PCI Bridges
 - PCI CardBus Controllers
- PCI Express**
 - PCI Bridges
 - PCI Endpoints
- PC**
 - PCI Bridges
 - PCI CardBus Controllers
- PC Express**
 - PCI Bridges
 - PCI Endpoints
- LVDS/M-LVDS/ECL/CML**
 - Crosspoint-Switch (>1 Gbps)
 - LVDS PHYs (<800 Mbps)
- M-LVDS PHYs (<500 Mbps)**
- PECL PHYs**
- Repeater/Translators (>1 Gbps)**
- Other Interface**
 - Bias Voltage Regulation
 - Infrared Data Access (IrDA)
 - Other Line Circuits
 - Peripheral Drivers and Actuators
 - Sensor Interface (Automotive)
- PCI PHYs**
- PCIe PHYs**
- PCIe Switches**
- RS-232**
- RS-422**
- RS-485**
- SCSI Termination and Transceivers**
 - SCSI Bus Termination
 - SCSI Parallel Interface (SPI)
- Serial Link Products**
 - Data Signal Conditioners
 - Non-Adaptive Equalizers
 - (Backplane and Cable)
 - Physical Media Dependent Electronics
 - Laser Driver
 - Limiting Amplifiers
- Transimpedance Amplifier**
- Serializers and Deserializers**
 - General-Purpose Gigabit Transceivers
 - Gigabit-Ethernet/Fibre-Channel Transceivers
 - LVDS Serdes (<100 MHz)
 - Sonet/Optical Transceivers
- Voltage Level Translation**
- UARTs**
- USB**
 - USB Hub Controllers
 - USB Peripherals
 - USB Transceivers
 - USB Transient Voltage Suppressor

Power Management

- AC/DC and DC/DC Power Supplies**
 - MOSFET Drivers
 - PWM Power Supply Controllers
 - Power Factor Correction ICs
 - Power Supply Support
 - Feedback Signal Generators
 - Loadshare
 - PMOS Switches
- Battery Management**
 - Battery Fuel Gauges
 - Battery Charge Management
 - Li-Ion Protection
 - Battery Authentication
- Hot Swap and Power Distribution**
 - Hot-Swap Power Management
 - Hot-Swap Controllers (External FET)
 - Hot-Swap Switches (Integrated FET)
 - PCI Power Managers
 - PCMCIA and USB
 - PCMCIA/CardBus Switch Matrix
 - USB Power Controllers
 - USB Power Switches
- Power Muxes and Current-Limited Switches**
 - Current-Limited Switches
 - Power MUXs
- Power-over-Ethernet/LAN Solutions**
 - Power Sourcing Equipment
 - Powered Devices
- Linear Regulators**
 - Low-Dropout (LDO) Controllers
 - LDO Regulators
 - Dual-Channel LDO
 - Single-Channel LDO
 - Standard Voltage Regulators
- Plug-In Power Modules**
 - Isolated DC/DC Converters
 - 1 W and 2 W Miniature
 - Multiple Output
 - Single Output
 - Non-Isolated POL
- Power Management Special Functions**
 - Motion/Motor Control
 - NVSRAM(Non-Volatile SRAM)
 - Schottky Diode Arrays
- Smart Power Switches**
- Telecom Ringers**
- Supervisory Circuits(Voltage Supervisors)**
- Non-Isolated Switching DC/DC Regulators**
 - Inductorless DC/DC Regulators (Charge Pumps)
 - Buck-Boost Regulators
 - Inverting Charge-Pump Regulators
 - Step-Down Charge-Pump Regulators
 - Step-Up Charge-Pump Regulators
 - DC/DC Controllers (External Switch)
 - DC/DC Converters (Integrated Switch)
 - Buck-Boost Regulators
 - Inverting Regulators
 - Step-Down Regulators
 - Step-Up Regulators
- Fusion Digital Power™ Control Solutions**
 - Fusion Digital Power™ Control Drivers
 - Fusion Digital Power™ Controllers
 - Fusion Digital Power™ PWM Controllers
- Lighting and Display Solutions**
 - LCD/OLED Display Bias Solutions
 - White LED Drivers
 - LED Drivers
 - CCFL Backlight Converters
 - HID Lamp Controllers
 - Photo-Flash Capacitor Chargers
- Power Management Multi-Channel IC (PMIC) Solutions**
 - Digital-Still-Camera Power
 - PMIC Solutions for ASICs and FPGAs
 - PMIC Solutions for PA and RF Systems
 - PMIC Solutions with and without Battery Charger
- References**
 - Shunt Voltage References
 - Series Voltage References
 - Current References

RF/IF

- ZigBee™**
- RF-IC Products for ISM Band**
 - 2.4 GHz
 - Sub 1 GHz
- 802.16d/e RF Chipset Solution**
 - 2.5-G Band Chipset
 - 3.5-G Band Chipset
 - 5.8-G Band Chipset
- IQ Modulator**

Other Analog

- Standard Linear**
- Switches and Multiplexers**
 - Analog Multipliers
 - Analog Switches/Multiplexers
 - LAN Switches
 - Network Switches
 - PCI Switches
 - USB Switches
 - Video Switches
- Telecom**
 - Analog Cellular Products
 - DSL Analog Front Ends
 - DSL Codecs
 - DSL Line Drivers and Receivers
 - IF Interface Circuits
 - Subscriber (Transient Voltage Suppressor)
- Temperature Sensors and Control ICs**
 - Temperature Sensors
 - Power+ Control
 - Power+ Logic
 - Temp Monitoring and Fan Control
- Video and Imaging**
 - CCD Area Image Sensors
 - CCD Imaging Analog Front Ends
 - Tuners
 - Video ADCs
- Video DACs**
- Video Encoders / Decoders**
- Digital Media Processors**
 - TMS320C64x™ DSPs
 - TMS320DM64x DSPs
 - DaVinci TMS320DM644x DSPs
- Optoelectronic Products**
 - Light to Voltage
- Special Functions**

Logic

- Buffers, Drivers and Transceivers**
 - Inverting Buffers and Drivers
 - Non-Inverting Buffers and Drivers
 - Parity Transceivers
 - Registered Transceivers
 - Standard Transceivers
- Flip Flops, Latches and Registers**
 - D-Type (3-State) Flip Flops
 - D-Type Flip Flops
 - D-Type Latches
 - J-K Flip Flops
 - Other Latches
 - Shift Registers
- Gates**
 - AND Gates
 - Exclusive NOR Gates (XNOR)
 - Exclusive OR Gates (XOR)
 - NAND Gates
 - NOR Gates
 - OR Gates
- IC Logic**
 - Hubs/aBuffers
 - I/O Expanders
 - LED Drivers
- Repeater**
- Switches**
- Voltage Level Translator**
- Little Logic™**
 - Configurable Gates
 - Single Gates
 - Dual Gates
 - Triple Gates
- MSI Functions**
 - Arithmetic and Parity Functions
 - Adders
 - Arithmetic Logic Units
 - Parity Generators and Checkers
 - Counters
 - Binary Counters
 - Decade Counters
 - Decoders/Encoders/Multiplexers
 - Data Selectors/Multiplexers
 - Decoders/Demultiplexers
 - Priority Encoders
 - Digital Comparators
 - Address/Identity/Magnitude Comparators
- Identity Comparators**
- Magnitude Comparators**
- Signal Switches**
 - Analog Switches and Multiplexers
 - Digital-Bus Exchange/Multiplexing Switches
 - Digital-Bus Switches
- Specialty Logic**
 - Backplane Logic
 - Boundary Scan (JTAG) Logic
 - Boundary Scan (JTAG)
 - Bus Devices
 - Boundary Scan (JTAG)
 - Support Devices
 - Bus Termination Arrays and Networks
 - DIMM Memory Drivers and Transceivers
 - ESD
 - FIFOs
 - Asynchronous FIFOs
 - Synchronous FIFOs
 - IEEE-1284 (Parallel Port Interface)
 - Miscellaneous Gate and Delay Elements
- Monostable Multivibrators**
- Phase-Locked-Loops (PLLs) and Oscillators**
- Programmable Logic**
 - PALS
 - PROMS
- Rate Multipliers/Frequency Dividers/Timers**
- Universal Bus Functions**
 - Universal Bus Drivers (UBDs)
 - Universal Bus Exchangers (UBEs)
 - Universal Bus Transceivers (UBTs)
- Voltage Level Translation**
 - Application Specific (Compact Flash, SD, MMC, iC)
 - Auto Direction Sensing
 - Dual Supply Translators
 - ECL/TTL Translators
 - GTL/TTL Translators
 - Open-Drain Outputs
 - Single-Supply Translators
 - Translating Bus Switches

Microcontroller

- MSP430 Ultra-Low-Power Microcontrollers**
 - MSP430x1xx - Flash ROM No LCD
 - MSP430x2xx - Flash No LCD
 - MSP430x3xx - ROM/OTP LCD
 - MSP430x4xx - Flash/ROM LCD
- C2000™ Digital Signal Controllers**
 - TMS320C24x™ Controllers
 - TMS320C28x™ Controllers
- TMS470 ARM7TDMI®-Based Industrial MCUs**

TMS320™ DSP Platforms

- DaVinci Digital Media Processors**
 - TMS320DM64x DSPs
 - TMS320DM643x DSPs
 - TMS320DM644x DSPs
- C6000™ High-Performance DSPs**
 - TMS320C62x DSPs
 - TMS320C64x DSPs
 - TMS320C67x DSPs
- C5000™ Power-Efficient DSPs**
 - TMS320C54x™ DSPs
 - TMS320C55x™ DSPs
- C2000 Digital Signal Controllers**
 - TMS320C24x Controllers
 - TMS320C28x Controllers
- Other TMS320 DSPs**
 - TMS320VC33 DSPs
- Digital Media Software Codecs**



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