

Analog, Digital, and Mixed-Signal Solutions from DC to GHz

1-Wire® and iButton® Devices

- 1-Wire Devices
- iButton Devices and Accessories

Amplifiers and Comparators

- Amplifiers
 - High-Voltage Amplifiers
 - Instrumentation Amplifiers
 - Precision Amplifiers
- Current-Sense Amplifiers
- Comparators

Analog Switches and Multiplexers

- Audio/Video, Switches, Multiplexers, and Crosspoints
- Relay Drivers
- Switches and Multiplexers

Audio

- Audio Amps/Line Drivers/Receivers
- Audio CODECs
- Audio Subsystems
- Click-and-Pop Suppression Amplifiers
- Headphone and Speaker Amplifiers
- Microphone Amplifiers
- Volume Control

Clock Generation and Distribution

- Buffers and Fanout Buffers
- Clock Distribution (High-Speed Differential Signaling)
- Clock Generators
- Oscillator Modules (TCXO, DTCXO, VCXO, XO)
- Silicon Oscillators

Data Converters

- Analog-to-Digital Converters (ADCs)
 - Precision ADCs
 - SAR ADCs
 - Delta-Sigma ADCs
 - High-Speed ADCs
- Digital-to-Analog Converters (DACs)
 - Precision DACs
 - Calibration DACs
 - High-Speed DACs

Digital Potentiometers

- Fiber Monitoring and Control
- Linear and Log Taper
- Programmable Precision Voltage-Dividers

Embedded Security

- Secure Authenticators
- Secure Microcontrollers
- Security Managers

Filters (Continuous and Switched Capacitor)

Hot-Swap, PoE, and Power Switching

- Hot-Swap Controllers
- Power-over-Ethernet Solutions
- Power Switching
 - Current-Limit and USB Power Switches
 - MOSFET Drivers, ORing FET Controllers
 - Overvoltage-Protection Controllers
 - Power-Plane/Card-Bus Switches

Interface and Interconnect

- Buffers, Repeaters, and Retimers
- High-Speed Interconnect (Differential Signaling)
 - Buffers and Fanout, Switches, Multiplexers, Demultiplexers
 - Serializers/Deserializers
- I/O Port Expanders and Port Selectors
- Key-Switch Controllers
- Level Translators (Logic Level, High Speed)
- Smart Card Interfaces
- Switches and Muxes (I²C, LAN, USB, VGA, DP, SAS/SATA, PCIe®, HDMI®/DVI)
- Terminators and Protectors
 - ESD and Signal-Line Protectors
 - Switch Debouncers/Protectors
 - Current-Limited Switches and Overvoltage Protectors
- Transceivers
 - CAN and LIN
 - Ethernet
 - IO-Link
 - Multiprotocol
 - RS-232 and RS-485/RS-422
- UARTs
- USB (Switches, Transceivers, Host Adapter Emulators)

LED Lighting and LCD Display ICs

Microcontrollers

- General-Purpose Microcontrollers
- Low-Power Microcontrollers
- Secure Microcontrollers

Power and Battery Management

- Battery Management
 - Chargers
 - Fuel Gauges
 - ID Products
 - Protectors, Selectors, and Monitors
- Built-In Inductor Modules
- Capacitor Charge Pumps
- DC-DC Switching Regulators and PMICs
- Display and LED Power
- Isolated DC-DC and AC-DC Controllers
- Isolated Power Supplies
- Linear Regulators
- Multifunction PMICs

Protection and Isolation

- ±15kV ESD Protected Switches and Diodes
- Isolated Power Supplies and Transceivers
- Overvoltage Fault Protected
 - Current-Limit Switches
 - Li+ Battery Protectors
 - Overvoltage-Protection Controllers
 - Signal-Line Protectors
 - SIM/Smart-Card Level Translators

Real-Time Clocks

- MEMS-Based (XTAL-less) RTCs
- RTC/NV SRAM Battery-Backed Modules
- Serial RTCs for High-ESR XTALs

RF and Wireless

- Amplifiers (LNA, PA, VGA, Gain Blocks)
- Integrated Receiver, Transmitter, and Transceiver Solutions
- I/Q Modulators and Demodulators
- PLL/VCO, VCOs, VCO Buffers
- RF Power Detectors

Sensors and Sensor Interfaces

- Optical Sensors
- Sensor Interfaces
- Sensor Signal Conditioners

Signal Integrity and Conditioning

- Equalizers and Redrivers (PCIe, SATA/SAS, Ethernet, Fibre Channel, 4-Channel Interface, InfiniBand, SONET/SDH)
- Broadband Switches (PCIe, SAS, SATA, USB, DisplayPort, DVI, HDMI)

Supervisors, Voltage Monitors, and Sequencers

- Microprocessor Supervisors
 - Multivoltage Monitors
 - Simple Reset/POR
 - Voltage Detectors and Battery Monitors
 - Watchdog Timers
- Power-Supply Sequencers and Voltage Trackers
- Regulator + Reset ICs
- Switch Debouncers and Pushbutton Devices

T/E Carrier and Packetized Communications

- Bit Error Rate Testers
- Carrier Ethernet Transport
- Clock Rate Adapters
- STM1E/E4 Line Interface Units
- T1/E1/J1 and T3/E3 Transmission

Thermal Management

- Temperature Sensors
 - Analog Temperature Sensors
 - Digital Temperature Sensors (Remote and Local)
- Fan Controllers
- RTD-to-Digital Converters
- Temperature Switches

Video

- Amplifiers and Buffers
- Crosspoints, Multiplexers, Switches, and Equalizers
- Filters

Voltage References

- Series
- Shunt

Solutions and Market-Specific Product Lines

Datacenter Equipment Infrastructure

- Battery Backup
- Intelligent Power Supplies
- Networking
- Servers
- Storage
- UPS

Market-Specific Product Lines

- Energy Measurement
- Hot-Swap, PoE, and Power Switching
- Interface, Interconnect, and Signal Integrity
- Point-of-Load Power Converters
- Power Supervisors
- Security and Authentication Devices
- Thermal Management

Electronic Financial Transactions

- ATMs
- Kiosks/Vending Machines
- PINpads
- Point of Sale (POS)
- Smartphone Adapters for Payment

Market-Specific Product Lines

- Secure Managers
- Secure Microcontrollers
- Smart Card Interfaces

Medical

Diagnostic, Monitoring and Therapy

- Continuous Positive Airway Pressure (CPAP)
- Dialysis Machines
- Digital Stethoscopes
- Electrocardiographs (ECG/EKG)
- External Defibrillators
- Infusion Pumps
- Multiparameter Patient Monitors (MPMs)
- Pulse Oximeters
- Spirometers
- Ventilators

Home Medical

- Blood Glucose Meters
- Blood Pressure Monitors
- Digital Thermometers
- Hearing Aids
- Heart-Rate/Fitness Monitors
- Insulin Pumps

Medical Imaging

- Computed Tomography Imaging (CT)
- Digital X-Ray
- Magnetic Resonance Imaging (MRI)
- Positron Emission Tomography (PET)
- Ultrasound Imaging

Medical Instruments

- Blood Gas Analyzers
- Flow Cytometers

Market-Specific Product Lines

- Microcontrollers
- Real-Time Clocks
- Security and Authentication Devices
- Sensors

Energy and Smart Grid

- Communications
- Distribution Automation
- Electricity Meters
- Energy Harvesting
- Energy Measurement
- EVSE
- Grid Infrastructure
- Home and Building Automation
- Lighting
- Security
- Solar Inverters
- Water and Gas Meters

Market-Specific Product Lines

- Energy Harvesting
- Energy Measurement
- Metrology
- Powerline Communications
- Real-Time Clocks
- Security and Authentication Devices

Industrial—Control and Automation

Process Control

- Distributed and Remote I/O Modules
- Process Measurement and Field Instrumentation (PMFI)
- Process Variable Transmitters (PVTs)
- Programmable Logic Controllers (PLCs)/Programmable Automation Controllers (PACs)

Environmental Automation

- Electronic Access Control
- Elevators/Escalators
- Fire Alarms
- Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC&R)
- Intruder Detection and Notification
- Lighting Controls

Motor Control

- AC Variable Frequency Drive (VFD)
- Servo Drive
- Soft Starters/Brakes
- Stepper Drives
- Other Motor Drives

Market-Specific Product Lines

- Beyond-the-Rails™ Products
- Complex System Management
- Digital Isolators
- Digital Input Serializers
- Digital Output Drivers
- Energy Measurement
- High-Voltage Analog Multiplexers
- High-Voltage Op Amps
- Industrial Communications Processors
- Industrial Power
- IO-Link Transceivers
- Isolated Power
- MOSFET Drivers
- Overvoltage/Overcurrent Protection
- Precision Voltage References
- Real-Time Clocks
- RS-485 Transceivers
- Security and Authentication Devices
- Sensors
- Subsystem Reference Designs
- Thermal Management

Wired Communications Infrastructure

- Aggregation Routers
- Cable Modem Termination Systems (CMTSs)
- Edge QAM Modulators
- Ethernet Switches
- IP Edge/Core Routers
- Optical Modules
- Optical Line Terminals (OLTs)
- Optical Network Terminals (ONTs)
- SAN Switches
- Subscriber Edge Routers

Market-Specific Product Lines

- High-Speed Converters
- Hot-Swap, PoE, and Power Switching
- Interface, Interconnect, and Signal Integrity
- Optical Communications
- Point-of-Load Power Converters
- Real-Time Clocks
- T/E Carrier and Packetized Communications
- Thermal Management

Wireless Infrastructure

- Distributed Antenna System (DAS)
- Macrocell Base Station
- Point-to-Point Microwave Backhaul
- Small-Cell Base Station
- Sub-6Hz Backhaul
- Very Small Aperture Terminal (VSAT)
- Wireless Backhaul

Market-Specific Product Lines

- High-Speed Converters
- Hot-Swap, PoE, and Power Switching
- Interface, Interconnect, and Signal Integrity
- Point-of-Load Power Converters
- T/E Carrier and Packetized Communications
- Thermal Management
- RF and Wireless