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Maxim Direct: 1-888-629-4642

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

## 1-Wire® and iButton® Devices (131 ICs)

- 1-Wire Devices
  - 1-Wire Interface Products
  - Battery Protectors, Selectors, and Monitors
  - Memory: EPROM, SRAM, EEPROM, ROM, NV SRAM, Multifunction Memory
  - Temperature Sensors and Switches
  - Timekeeping and Real-Time Clocks
- iButtons and Accessories
  - iButton Mounting Options
  - iButton Products
  - iButton Readers and Adapters
  - iButton Starter Kits

## Amplifiers and Comparators (479 ICs)

- Amplifiers
  - Amplifier + Comparator + Reference ICs
  - Current-Sense Amplifiers
  - Instrumentation/Difference Amplifiers
  - Operational Amplifiers
  - ALSO SEE: Audio and Video Products
- Comparators
  - ATE Pin Electronics
  - Comparator + Reference ICs
  - Dual-Speed Comparators

## Analog Switches and Multiplexers (503 ICs)

- Audio/Video Multiplexers and Crosspoints (Active)
- Audio/Video Routing (Passive)
- Relay Drivers
- Switches and Multiplexers

## Audio (110 ICs)

- Audio Crosspoints, Multiplexers, and Switches
- Audio Subsystems
- Audio/Video Routing (Passive)
- Click-and-Pop Suppression Amplifiers
- Headphone Amplifiers
- Microphone Amplifiers
- Speaker Amplifiers
- Volume Control

## Automotive (435 ICs)

- Amplifiers
  - Current-Sense Amplifiers
  - Operational Amplifiers
- Analog Switches and Multiplexers
- Audio
- Data Converters
- Displays
  - Display Controllers
  - High-Brightness LED Drivers
  - LCD Display Backlighting
- Hot-Swap Controllers
- Interface
  - Controller Area Network (CAN)
  - Local Interconnect (LIN)
  - RS-232 Line Drivers/Receivers
  - RS-422/RS-485 Line Drivers/Receivers

- Power Management
  - DC-DC Switching Regulators
  - Linear Regulators
  - Microcontroller Supervisors
  - MOSFET Drivers
  - Multifunction PMICs
  - Overvoltage-Protection Controllers
- Real-Time Clocks
- Silicon Oscillators
- Thermal Management
- Video
- Wireless and RF

## Clock Generation and Distribution (219 ICs)

- Clock Distribution
- Clock Generation and Synchronization
- Counters and Timers
- Delay Lines
- Oscillators
  - Die for Oscillator Modules
  - Silicon Oscillators
  - TCXOs, VCXOs

## Data Converters and Sample-and-Holds (776 ICs)

- Analog-to-Digital Converters
  - Dual-Slope and Display-Oriented ADCs
  - High-Speed ADCs ( $\geq 1$ Msp/s)
  - Medium/Fast ADCs (Up to 1Msp/s)
  - Sigma-Delta ADCs
- Digital-to-Analog Converters and Sample-and-Holds
  - High-Speed DACs ( $\geq 1$ MHz)
  - Precision DACs
  - Sample-and-Holds for DAC Expansion
- Fast Codecs

## Digital Potentiometers (124 ICs)

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

## Display Drivers and Power (221 ICs)

- CCFL Controllers
- Direct-from-Battery LED/GPIO Drivers
- Display Driving Counters
- Dual-Slope and Display-Oriented ADCs
- Gamma Buffers
- High-Brightness LED Drivers
- LCD Power Supplies
- LED Display Drivers
- Segmented Display Drivers
- VCOM Drivers
- VFD Display Drivers
- White-LED Drivers

## Fiber and Communications (291 ICs)

- Digital Potentiometers for Fiber Communications
- Fiber/Cable ICs
  - Clock Generators
  - Clock Recovery and Data Retimers
  - Equalizers
  - Laser Drivers
  - Limiting Amplifiers
  - Transimpedance Amplifiers
- Fiber Monitoring and Control
- High-Speed Interconnect (Differential Signaling)
- ALSO SEE: T/E Carrier and Packetized Products

## Filters (Continuous and Switched Capacitor) (92 ICs)

### High-Frequency ASICs

## Hot-Swap and Power Switching (237 ICs)

- Hot-Swap Controllers
- Power-Over-Ethernet Solutions
  - Powered Devices
  - Powered Devices with PWM Controller
  - Power-Sourcing Equipment
- Power Switching
  - Battery-Source Selectors
  - Current-Limiting Protection
  - MOSFET Drivers, OR-ing FET Controllers
  - Overvoltage-Protection Controllers
  - Power-Plane/Card-Bus Switches
  - Relay Drivers
  - USB Power Switches

## Interface and Interconnect (617 ICs)

- CAN and LIN
- High-Speed Interconnect (Differential Signaling)
- I/O Port Expanders
- IrDA
- Level Translators
- Multiprotocol Transceivers
- RS-232 Line Drivers/Receivers
- RS-422/RS-485 Line Drivers/Receivers
- Terminators and Protectors
  - E1/T1 Termination
  - SCSI Terminators
  - Signal-Line Protectors
  - Switch Debounce/Protectors
- UARTs
- USB
  - Analog Switches
  - Controllers
  - On-the-Go (OTG)
  - Power Switches
  - Transceivers

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### Memories (Nonvolatile, SRAM, EEPROM) (130 ICs)

- 1-Wire Memory: EPROM, SRAM, EEPROM, ROM
- Multifunction Serial Memory
- NV SRAM
- Nonvolatile Timekeeping RAMs

### Microcontrollers (High Speed and Secure) (67 ICs)

- 16-Bit MAXQ<sup>®</sup> RISC Microcontroller
- 8051 Drop-Ins
- Networked Microcontrollers [TINI<sup>®</sup> (Tiny Internet Interface)]
- Peripherals
  - I/O Port Expanders
  - Key-Switch Controllers
- Secure Microcontrollers

### Power and Battery Management (1480 ICs)

- Battery Management
  - Battery Chargers
  - Battery Fuel Gauges
  - Battery ID Products
  - Battery Protectors, Selectors, and Monitors
- Capacitor Charge Pumps
- DC-DC Switching Regulators
- Display and LED Power (See Display Drivers)
- Hot-Swap and Power Switching (See Hot-Swap and Power Switching)
- Isolated Power Supplies
- Linear Regulators
- MOSFET Drivers, OR-ing FET Controllers
- Multifunction PMICs
- Supervisors and Sequencers (See Supervisors, Voltage Monitors, and Sequencers)
- ALSO SEE: Voltage References

### Powerline Networking (2 ICs)

### Protection and Isolation (310 ICs)

- ±15kV ESD Protected
  - RS-232
  - RS-485/RS-422
  - Analog Switches/Multiplexers
  - ESD-Protection Diodes
- Isolation
  - Isolated Power Supplies
  - Isolated RS-232
  - Isolated RS-485/RS-422

- Overvoltage Fault Protected
  - Analog Switches/Multiplexers
  - Current-Limit Switches
  - Li-Ion Battery Protectors
  - Overvoltage-Protection Controllers
  - RS-485/RS-422 Transceivers
  - Signal-Line Protectors
  - SIM/Smart-Card Level Translators
  - Switch Debouncers/Protectors

### Real-Time Clocks (92 ICs)

### Storage (30 ICs)

- SAS/SATA
- Enclosure Management

### Supervisors, Voltage Monitors, and Sequencers (613 ICs)

- Microprocessor Supervisors
  - Multivoltage Monitors
  - Simple Reset/POR
  - Voltage Detectors and Battery Monitors
  - Watchdog Timers
- Nonvolatile RAM Controllers
- Power-Supply Sequencers and Voltage Trackers
- Regulator + Reset ICs
- Secure Supervisors
- Switch Debouncers/Protectors

### T/E Carrier and Packetized Products (101 ICs)

- Bit-Error Rate (BER) Testers
- Clock-Rate Adapters
- E1/T1 Termination
- HDLC Controllers
- T1/E1/J1 Transmission
- T3/E3 Transmission
- ALSO SEE: Fiber and Communications

### Thermal Management, Sensors, and Sensor Conditioners (151 ICs)

- iButton Temperature Loggers
- Sensor Signal Conditioners
- Thermal Management
  - Analog Temperature Sensors
  - Digital Temperature Sensors (Remote and Local)
  - Fan Controllers
  - Temperature Switches

### Video (242 ICs)

- Audio/Video Routing (Passive)
- SCART Audio/Video Switches
- Video Filters
- Video Multiplexers and Crosspoints (Active)
- Video On-Screen Display Generators
- Video Signal Conditioners
- Video/Wideband Amplifiers
- Video/Wideband Buffers
- Video/Wideband Distribution Amplifiers
- Video/Wideband Line Drivers/Receivers

### Voltage References (160 ICs)

- Amplifier + Comparator + Reference ICs
- Comparator + Reference ICs
- Voltage References

### Wireless, RF, and Cable (235 ICs)

- CATV and Upstream Amplifiers
- Wireless and RF
  - Downconverter Mixers
  - Front-Ends/Receivers
  - GPS Products
  - IF I/Q Demodulators
  - IF I/Q Modulators
  - IF Transceivers
  - Low-Noise Amplifiers
  - PA Power-Control Amplifiers
  - Power Amplifiers/Drivers
  - Receive System ICs
  - RF and IF Variable-Gain Amplifiers
  - RF Power Detectors
  - RF Predistortion ICs
  - RF Transceivers
  - Transmit System ICs
  - Upconverter Mixers
  - Vector Modulators/Multipliers
  - VCOs/VCO Buffers
- ALSO SEE: High-Frequency ASICs

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