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1-Wire Devices

Parts	Description	Product Lifecycle	Functions	Interface	Features
DS28E54	1-Wire SHA3-256 Secure Authenticator with DS2431/DS28E07 Compatibility	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Decrement Counter, Memory Protection, Serial Number, SHA Authentication
MAX30207	±0.1°C Accurate, 1-Wire® Digital Temperature Sensor	PRODUCTION	Clinical Accuracy Temperature Sensor, Temperature Sensor	1-Wire	-
DS28E30	1-Wire ECDSA Secure Authenticator	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Certificate, Decrement Counter, ECDSA Authentication, Unique 64-Bit Serial Number
MAX31888	±0.25°C Accurate 1-Wire Temperature Sensor	PRODUCTION	1-Wire Temperature Sensor, High Precision Temperature Sensor	1-Wire	High Accuracy, Multiple Temperature Thresholds
DS2485	Advanced 1-Wire® Master with Memory	PRODUCTION	1-Wire Bridge	1-Wire	Adjustable 1-Wire Timing Settings, I2C to 1-Wire
DS28E40	Deep Cover Automotive 1-Wire Authenticator	PRODUCTION	1-Wire Secure Authentication	1-Wire	Certificate, ECDSA Authentication, Random Number Generator, SHA Authentication, With GPIO
DS2488	1-Wire Dual-Port Link	RECOMMENDED FOR NEW DESIGNS	1-Wire Bridge, Command Sequencer	1-Wire	ESD Protection, Level Shifting, TWS Earbuds and Charger Box
DS28E18	1-Wire® to I2C/SPI Bridge with Command Sequencer	PRODUCTION	1-Wire Bridge, Command Sequencer	1-Wire	1-Wire to I2C, 1-Wire to SPI
MAX17320	2S-4S ModelGauge m5 EZ Fuel Gauge with Protector, Internal Self-Discharge Detection, and SHA-256 Authentication	RECOMMENDED FOR NEW DESIGNS	Battery ID, Fuel Gauge, Protector, SHA-256 Authentication	1-Wire, 2-Wire	Cell Balancing, Cycle+ Age Forecast, External MOSFET Drivers, EZ Version Available, Internal Self-Discharge Detection, Life Logging, Protection Circuitry, SHA-256 Authentication, SOC/Voltage/Temperature Alert, Unique 64-bit ID
MAX31825	1-Wire® Temperature Sensor with ±1°C Accuracy	RECOMMENDED FOR NEW DESIGNS	1-Wire Temperature Sensor, Dual Temperature Alarms	1-Wire	Separate High and Low Temperature Thresholds, Two Alarm Outputs
MAX17310	1-Cell ModelGauge m5 EZ Fuel Gauge with Protector, Internal Self-Discharge Detection and SHA-256 Authentication	RECOMMENDED FOR NEW DESIGNS	Battery ID, Fuel Gauge, SHA-256 Authentication	1-Wire	Cycle+ Age Forecast, EZ Version Available, Internal Self-Discharge Detection, Life Logging, SHA-256 Authentication, SOC/Voltage/Temperature Alert, Unique 64-bit ID

	Description	Product Lifecycle	Functions	Interface	Features
MAX17311	1-Cell ModelGauge m5 EZ Fuel Gauge with Protector, Internal Self-Discharge Detection and SHA-256 Authentication	RECOMMENDED FOR NEW DESIGNS	Fuel Gauge, Protector	1-Wire	Cycle+ Age Forecast, EZ Version Available, Life Logging, Low-Battery Alert, SHA-256 Authentication, Unique 64-bit ID
MAX17312	1-Cell ModelGauge m5 EZ Fuel Gauge with Protector, Internal Self-Discharge Detection and SHA-256 Authentication	RECOMMENDED FOR NEW DESIGNS	Fuel Gauge, Protector	1-Wire	Cycle+ Age Forecast, EZ Version Available, Life Logging, Low-Battery Alert, SHA-256 Authentication, Unique 64-bit ID
MAX17313	1-Cell ModelGauge m5 EZ Fuel Gauge with Protector, Internal Self-Discharge Detection and SHA-256 Authentication	RECOMMENDED FOR NEW DESIGNS	Fuel Gauge, Protector	1-Wire	Cycle+ Age Forecast, EZ Version Available, Life Logging, Low-Battery Alert, Unique 64-bit ID
DS28E16	1-Wire Secure SHA-3 Authenticator	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Decrement Counter, Memory Protection, Memory Protection Options, Serial Number, SHA Authentication
DS28E84	DeepCover Radiation Resistant, High-Capacity 1-Wire Secure Authenticator	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Certificate, Channel Encryption, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Programmable IO, Radiation Resistance, Random Number Generator, Serial Number, SHA Authentication, With GPIO
DS28E39	DeepCover Secure ECDSA Bidirectional Authenticator with ChipDNA PUF Protection	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Certificate, ChipDNA PUF Technology, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number
DS2477	DeepCover Secure SHA-3 Coprocessor with ChipDNA PUF Protection	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	ChipDNA PUF Technology, Decrement Counter, I2C to 1-Wire, Memory Protection, Memory Protection Options, Programmable IO, Random Number Generator, Serial Number, SHA Authentication, With GPIO
DS28E50	DeepCover Secure SHA-3 Authenticator with ChipDNA PUF Protection	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	ChipDNA PUF Technology, Decrement Counter, Memory Protection, Memory Protection Options, Programmable IO, Random Number Generator, Serial Number, SHA Authentication, With GPIO
DS1964S	DeepCover Secure Authenticator iButton with SHA-256	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Memory Protection, Memory Protection Options, Serial Number, SHA Authentication
DS28E83	DeepCover Radiation Resistant 1-Wire Secure Authenticator	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Certificate, Channel Encryption, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Programmable IO, Radiation Resistance, Random Number Generator, Serial Number, SHA Authentication, With GPIO
DS28E36	DeepCover Secure Authenticator	PRODUCTION	1-Wire Secure Authentication	1-Wire	Certificate, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number, SHA Authentication, With GPIO

	Description	Product Lifecycle	Functions	Interface	Features
DS28E38	DeepCover® Secure ECDSA Authenticator with ChipDNA PUF Protection	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Certificate, ChipDNA PUF Technology, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number
DS28E07	1024-Bit, 1-Wire EEPROM	PRODUCTION	1-Wire Memory	1-Wire	Memory Protection Options, Serial Number
DS1925	iButton High-Density Temperature Logger with 122KB Data-Log Memory	RECOMMENDED FOR NEW DESIGNS	1-Wire Temperature Sensor	1-Wire	Programmable Recording Start, Programmable Temp. Trip Points, Water Resistant, Waterproof if used with DS9107
DS1925L	iButton High-Density Temperature Logger with 122KB Data-Log Memory	RECOMMENDED FOR NEW DESIGNS	1-Wire Temperature Sensor	1-Wire	Programmable Recording Start, Programmable Temp. Trip Points, Water Resistant, Waterproof if used with DS9107
MAX17211	Stand-Alone ModelGauge m5 Fuel Gauge with SHA-256 Authentication	RECOMMENDED FOR NEW DESIGNS	Fuel Gauge, SHA-256 Authentication, Status Monitor	1-Wire	Cycle+ Age Forecast, EZ Version Available, Life Logging, SHA-256 Authentication, SOC/Voltage/Temperature Alert, Unique 64-bit ID
MAX17215	Stand-Alone ModelGauge m5 Fuel Gauge with SHA-256 Authentication	RECOMMENDED FOR NEW DESIGNS	Fuel Gauge, SHA-256 Authentication, Status Monitor	1-Wire	Cycle+ Age Forecast, EZ Version Available, Life Logging, SHA-256 Authentication, SOC/Voltage/Temperature Alert, Unique 64-bit ID
DS28E17	1-Wire®-to-I2C Master Bridge	PRODUCTION	1-Wire Bridge	1-Wire	1-Wire to I2C, Sleep Mode
DS28E80	Gamma Radiation Resistant 1-Wire Memory	RECOMMENDED FOR NEW DESIGNS	1-Wire Memory, 1-Wire Secure Authentication	1-Wire	Radiation Resistant, Serial Number
DS2475	DeepCover ECDSA Coprocessor with 1-Wire Master	PRODUCTION	1-Wire Bridge, 1-Wire Secure Authentication, ECDSA Coprocessing	1-Wire	ECDSA Authentication, I2C to 1-Wire, I2C to 1-Wire Bus Master, Sleep Mode
DS2484	Single-Channel 1-Wire Master with Adjustable Timing and Sleep Mode	PRODUCTION	1-Wire Bridge	1-Wire	I2C to 1-Wire, Level Shifting, Sleep Mode
MAX31820	1-Wire Ambient Temperature Sensor	PRODUCTION	1-Wire Temperature Sensor	1-Wire	±0.5°C accuracy over +10°C to +45°C, Nonvolatile Thermostatic Settings, Unique Network Address
MAX31820PAR	1-Wire Parasite-Power, Ambient Temperature Sensor	PRODUCTION	1-Wire Temperature Sensor	1-Wire	±0.5°C accuracy over +10°C to +45°C, Nonvolatile Thermostatic Settings, Unique Network Address
MAX31850	Cold-Junction Compensated, 1-Wire Thermocouple-to-Digital Converters	PRODUCTION	1-Wire Temperature Sensor, Thermocouple-to-Digital Converter	1-Wire	Detects Thermocouple Shorts to Ground or Vcc, Integrated Cold-Junction Compensation, Measures K, J, N, T and E Type Thermocouples, Open Thermocouple Detection, Single-Wire Interface, Unique Network Address

	Description	Product Lifecycle	Functions	Interface	Features
DS24L65	DeepCover Secure Authenticator with SHA-256 Coprocessor and 1-Wire Master Function	PRODUCTION	1-Wire Bridge, 1-Wire Secure Authentication, SHA-256 Coprocessing	1-Wire	I2C to 1-Wire, I2C to 1-Wire Bus Master, SHA Authentication, Sleep Mode
DS28E35	DeepCover Secure Authenticator with 1-Wire ECDSA and 1Kb User EEPROM	PRODUCTION	1-Wire Secure Authentication	1-Wire	Certificate, Decrement Counter, ECDSA Authentication, Memory Protection Options, Serial Number
DS28EL22	DeepCover Secure Authenticator with 1-Wire SHA-256 and 2Kb User EEPROM	PRODUCTION	1-Wire Secure Authentication	1-Wire	Memory Protection Options, Serial Number, SHA Authentication
DS28E05	1-Wire EEPROM	PRODUCTION	1-Wire Memory	1-Wire	Memory Protection Options, Serial Number
DS28EL15	DeepCover Secure Authenticator with 1-Wire SHA-256 and 512-Bit User EEPROM	PRODUCTION	1-Wire Secure Authentication	1-Wire	Memory Protection Options, Serial Number, SHA Authentication
DS28E22	DeepCover Secure Authenticator with 1-Wire SHA-256 and 2Kb User EEPROM	PRODUCTION	1-Wire Secure Authentication	1-Wire	Memory Protection Options, Serial Number, SHA Authentication
DS28E25	DeepCover Secure Authenticator with 1-Wire SHA-256 and 4Kb User EEPROM	PRODUCTION	1-Wire Secure Authentication	1-Wire	Memory Protection Options, Serial Number, SHA Authentication
DS28E15	DeepCover Secure Authenticator with 1-Wire SHA-256 and 512-Bit User EEPROM	RECOMMENDED FOR NEW DESIGNS	1-Wire Secure Authentication	1-Wire	Memory Protection Options, Serial Number, SHA Authentication
DS2465	DeepCover Secure Authenticator with SHA-256 Coprocessor and 1-Wire Master Function	RECOMMENDED FOR NEW DESIGNS	1-Wire Bridge, 1-Wire Secure Authentication, SHA-256 Coprocessing	1-Wire	I2C to 1-Wire, I2C to 1-Wire Bus Master, SHA Authentication, Sleep Mode
MAX31826	1-Wire Digital Temperature Sensor with 1Kb Lockable EEPROM	PRODUCTION	1-Wire Temperature Sensor, Memory	1-Wire	High Accuracy, Serial Number, Single-Wire Interface, Unique Network Address
DS24B33	1-Wire 4Kb EEPROM	PRODUCTION	1-Wire Memory	1-Wire	Serial Number
DS28E02	1-Wire SHA-1 Authenticated 1Kb EEPROM with 1.8V Operation	PRODUCTION	1-Wire Secure Authentication	1-Wire	Memory Protection Options, Serial Number, SHA Authentication
DS28E10	1-Wire SHA-1 Authenticator	PRODUCTION	1-Wire Secure Authentication	1-Wire	Memory Protection Options, Serial Number, SHA Authentication
DS2775	2-Cell, Fuel Gauge with FuelPack, Protector, and SHA-1 Authentication	PRODUCTION	Fuel Gauge, Protector, Status Monitor	1-Wire	Protection Circuitry, SHA-1 Authentication

	Description	Product Lifecycle	Functions	Interface	Features
DS2776	2-Cell, Fuel Gauge with FuelPack, Protector, and SHA-1 Authentication	PRODUCTION	Fuel Gauge, Protector, Status Monitor	1-Wire	Protection Circuitry, SHA-1 Authentication
DS1922E	iButton High-Temperature Logger with 8KB Data-Log Memory	PRODUCTION	1-Wire Data Logger	1-Wire	Programmable Recording Start, Programmable Temp. Trip Points, Water Resistant, Waterproof if used with DS9107
DS2482-101	Single-Channel 1-Wire® Master with Sleep Mode	PRODUCTION	1-Wire Bridge	1-Wire	I2C to 1-Wire, Sleep Mode
DS2431-A1	1024-Bit, 1-Wire EEPROM for Automotive Applications	PRODUCTION	1-Wire Memory	1-Wire	Memory Protection Options, Serial Number
DS2788	Stand-Alone Fuel-Gauge IC with LED Display Drivers	PRODUCTION	Fuel Gauge	1-Wire	Integrated LED Drivers, On-chip Remaining Capacity Algorithms, Unique ID
DS28EC20	20Kb 1-Wire EEPROM	RECOMMENDED FOR NEW DESIGNS	1-Wire Memory	1-Wire	Memory Protection Options, Serial Number
DS2784	1-Cell Fuel Gauge with FuelPack, Protector, and SHA-1 Authentication	PRODUCTION	Fuel Gauge, Protector	1-Wire	Digital Current Accumulation, Internal MOSFET Drivers, On-chip Remaining Capacity Algorithms, Protection Circuitry, SHA-1 Authentication, Unique ID
DS28EA00	1-Wire Digital Thermometer with Sequence Detect and PIO	PRODUCTION	1-Wire Temperature Sensor, Chain Mode Function	1-Wire	High Accuracy, Sequence Detection, Serial Number, Single-Wire Interface, Unique Network Address
DS28CM00	I²C/SMBus Silicon Serial Number	PRODUCTION	1-Wire Memory	-	-
DS2756	High-Accuracy Battery Fuel Gauge with Programmable Suspend Mode	PRODUCTION	Fuel Gauge	1-Wire	AFE, Digital Current Accumulation, One-Shot Mode, Suspend Mode, Unique ID
DS2704	1280-Bit EEPROM with SHA-1 Authentication	PRODUCTION	Battery ID, SHA-1 Authentication	1-Wire	Compatible with DS2502 Memory Map, Unique 64-bit ID
DS2781	1-Cell or 2-Cell Stand-Alone Fuel Gauge IC	PRODUCTION	Fuel Gauge	1-Wire	Digital Current Accumulation, On-chip Remaining Capacity Algorithms, Unique ID
DS28E01-100	1Kb Protected 1-Wire EEPROM with SHA-1 Engine	PRODUCTION	1-Wire Secure Authentication	1-Wire	Memory Protection Options, Serial Number, SHA Authentication
DS2703	SHA-1 Battery Pack Authentication IC	PRODUCTION	Battery ID, SHA-1 Authentication	1-Wire	Thermistor Mux, Unique 64-bit ID

	Description	Product Lifecycle	Functions	Interface	Features
DS1825	Programmable Resolution 1-Wire Digital Thermometer With 4-Bit ID	PRODUCTION	1-Wire Temperature Sensor	1-Wire	High Accuracy, Single-Wire Interface
DS2413	1-Wire Dual Channel Addressable Switch	PRODUCTION	1-Wire Memory	1-Wire	Dual Addressable Switch, Serial Number, With GPIO
DS2780	Stand-Alone Fuel Gauge IC	PRODUCTION	Fuel Gauge	1-Wire	Digital Current Accumulation, On-chip Remaining Capacity Algorithms, Unique ID
DS28E04-100	4096-Bit Addressable 1-Wire EEPROM with PIO	PRODUCTION	1-Wire Memory	1-Wire	Memory Protection Options, Serial Number, With GPIO
DS1923	iButton Hygrochron Temperature/Humidity Logger with 8KB Data-Log Memory	PRODUCTION	1-Wire Data Logger	1-Wire	Programmable Humidity Trip Points, Programmable Recording Start, Programmable Temp. Trip Points, Water Resistent, Waterproof if used with DS9107
DS2482-100	Single-Channel 1-Wire Master	PRODUCTION	1-Wire Bridge	1-Wire	I2C to 1-Wire
DS2482-800	8-Channel 1-Wire Master	PRODUCTION	1-Wire Bridge	1-Wire	I2C to 1-Wire
DS2431	1024-Bit 1-Wire EEPROM	PRODUCTION	1-Wire Memory	1-Wire	Memory Protection Options, Serial Number
DS1922L	iButton Temperature Loggers with 8KB Data-Log Memory	PRODUCTION	1-Wire Data Logger	1-Wire	Programmable Recording Start, Programmable Temp. Trip Points, Water Resistent, Waterproof if used with DS9107
DS1922T	iButton Temperature Loggers with 8KB Data-Log Memory	PRODUCTION	1-Wire Data Logger	1-Wire	Programmable Recording Start, Programmable Temp. Trip Points, Water Resistent, Waterproof if used with DS9107
DS1921G	Thermochron iButton Device	RECOMMENDED FOR NEW DESIGNS	1-Wire Data Logger	1-Wire	Long-term Histogram with 2°C Resolution, Programmable Temp. Trip Points, Water Resistent, Waterproof if used with DS9107
DS2762	High-Precision Li+ Battery Monitor with Alerts	PRODUCTION	Fuel Gauge, Protector, Status Monitor	1-Wire	Accumulated Current & Temperature Alerts, Digital Current Accumulation, External MOSFET Drivers, Unique ID
DS2408	1-Wire 8-Channel Addressable Switch	PRODUCTION	1-Wire Memory	1-Wire	Serial Number, With GPIO
DS2740	High-Precision Coulomb Counter	PRODUCTION	Fuel Gauge	1-Wire	AFE, Digital Current Accumulation, Unique ID
DS18S20	1-Wire Parasite-Power Digital Thermometer	PRODUCTION	1-Wire Temperature Sensor	1-Wire	High Accuracy, Single-Wire Interface, Unique Network Address

	Description	Product Lifecycle	Functions	Interface	Features
DS2502-E48	48-Bit Node Address Chip	PRODUCTION	1-Wire Memory	1-Wire	Add-Only Memory, Serial Number
DS2411	Silicon Serial Number with or without VCC Input	RECOMMENDED FOR NEW DESIGNS	1-Wire Memory	1-Wire	Serial Number
DS2438	Smart Battery Monitor	PRODUCTION	Fuel Gauge, Status Monitor	1-Wire	AFE, Digital Current Accumulation, Unique ID
DS2401	Silicon Serial Number	RECOMMENDED FOR NEW DESIGNS	1-Wire Memory	1-Wire	Serial Number
DS2430A	256-Bit 1-Wire EEPROM	PRODUCTION	1-Wire Memory	1-Wire	Serial Number
DS1921H	High-Resolution Thermochron iButton Devices	PRODUCTION	1-Wire Data Logger	1-Wire	Long-term Histogram with 0.5°C Resolution, NV RAM, Water Resistent, Waterproof if used with DS9107
DS1921Z	High-Resolution Thermochron iButton Devices	PRODUCTION	1-Wire Data Logger	1-Wire	Long-term Histogram with 0.5°C Resolution, NV RAM, Water Resistent, Waterproof if used with DS9107
DS18S20-PAR	Parasite-Power Digital Thermometer	PRODUCTION	1-Wire Temperature Sensor	1-Wire	High Accuracy, Single-Wire Interface, Unique Network Address
DS2432	1Kb Protected 1-Wire EEPROM with SHA-1 Engine	PRODUCTION	1Kb Protected 1-Wire EEPROM with SHA-1 Engine	-	-
DS2505	16Kb Add-Only Memory	PRODUCTION	1-Wire Memory	1-Wire	Add-Only Memory, Serial Number
DS2406	Dual Addressable Switch Plus 1Kb Memory	PRODUCTION	1-Wire Memory	1-Wire	Add-Only Memory, Dual Addressable Switch, Serial Number, With GPIO
DS2502	1Kb Add-Only Memory	PRODUCTION	1-Wire Memory	1-Wire	Add-Only Memory, Serial Number
DS2502-E64	IEEE EUI-64 Node Address Chip	PRODUCTION	1-Wire Memory	1-Wire	Add-Only Memory, IEEE EUI-64 Node Address, Serial Number
DS2502-UNW	UniqueWare™ Add-Only Memory	PRODUCTION	1-Wire Memory	-	-
DS2480B	Serial to 1-Wire Line Driver	PRODUCTION	1-Wire Bridge	1-Wire	UART to 1-Wire
DS2417	1-Wire Time Chip With Interrupt	PRODUCTION	Elapsed Time Counter, RTC	1-Wire	Serial Number, Wake-up

NFC/RFID Products

Parts	Description	Product Lifecycle	Protocol	Functions	End Equipment	Memory Type	Memory Size	Security Features	Features
MAX66250	ISO 15693, SHA3-256, 256-Bit User EEPROM Secure Authenticator	RECOMMENDED FOR NEW DESIGNS	ISO15693	Tag	Access Control, Asset Tracking, IP Protection, Medical Sensor Authentication and Calibration, Printer Cartridge Configuration and Monitoring, RFID/NFC General Purpose, Secure Access Control	EEPROM	256bit	SHA3-256, Write-Only Secrets	Memory Protection, Serial Number, SHA Authentication
MAX66301	DeepCover Secure Authenticator with SHA-3 and RFID Reader	RECOMMENDED FOR NEW DESIGNS	ISO15693	Reader	Asset Tracking, Handheld Reader Modules, Identification Systems, RFID/NFC General Purpose, Secure Access Control	Flash	1K bits	Four Master Secrets, SHA3-256	Antenna Short-Circuit Protection, Random Number Generator, SHA Authentication, UART and SPI Interface Ports, Unique 64-Bit Serial Number, Write-only Secrets
MAX66242	DeepCover Secure Authenticator with ISO 15693, I ² C, SHA-256, and 4Kb User EEPROM	RECOMMENDED FOR NEW DESIGNS	ISO15693	Tag	Access Control, Asset Tracking, Electronic Access Control, IP Protection, Medical Sensor Authentication and Calibration, Printer Cartridge Configuration and Monitoring, System Intellectual Property Protection	EEPROM	4K bits, 4K x 1	SHA-256, Write-Only Secrets	I2C Interface, Memory Protection, Programmable IO, Serial Number, SHA Authentication
MAX66300	DeepCover Secure Authenticator with SHA-256 and RFID Reader	RECOMMENDED FOR NEW DESIGNS	ISO15693	Reader	Asset Tracking, Handheld Reader Modules, Identification Systems, RFID/NFC General Purpose, Secure Access Control	Flash	1K bits, 1K x 1	Four Master Secrets, SHA-256	Antenna Short-Circuit Protection, Random Number Generator, SHA Authentication, UART and SPI Interface Ports, Unique 64-Bit Serial Number, Write-only Secrets
MAX66240	DeepCover Secure Authenticator with ISO 15693, SHA-256, and 4Kb User EEPROM	RECOMMENDED FOR NEW DESIGNS	ISO15693	Tag	Access Control, Asset Tracking, eCash, Electronic Access Control, IP Protection, Medical Sensor Authentication and Calibration, Printer Cartridge Configuration and Monitoring, System Intellectual Property Protection	EEPROM	4K bits, 4K x 1	SHA-256, Write-Only Secrets	Memory Protection, Serial Number, SHA Authentication

Secure Authenticators

Parts	Description	Product Lifecycle	Crypto Engine	End Equipment	Bus Type	Memory Type	Memory Size	Features	VSUPPLY	Deep Cover
DS28E54	1-Wire SHA3-256 Secure Authenticator with DS2431/DS28E07 Compatibility	RECOMMENDED FOR NEW DESIGNS	Symmetric	Asset Tracking, Inventory, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Peripheral ID and Control, Print Cartridge Authentication, Rack Card ID, Rack Card Security	1-Wire	EEPROM	2.25K bits	Decrement Counter, Memory Protection, Serial Number, SHA Authentication	2.8 to 5.25	Yes
MAX66250	ISO 15693, SHA3-256, 256-Bit User EEPROM Secure Authenticator	RECOMMENDED FOR NEW DESIGNS	Symmetric	Access Control, Asset Tracking, IP Protection, Medical Sensor Authentication and Calibration, Printer Cartridge Configuration and Monitoring, RFID/NFC General Purpose, Secure Access Control	ISO 15693	EEPROM	256bit	Memory Protection, Serial Number, SHA Authentication	-	Yes
MAX66301	DeepCover Secure Authenticator with SHA-3 and RFID Reader	RECOMMENDED FOR NEW DESIGNS	Symmetric	Asset Tracking, Handheld Reader Modules, Identification Systems, RFID/NFC General Purpose, Secure Access Control	ISO 15693	Flash	1K bits	Antenna Short-Circuit Protection, Random Number Generator, SHA Authentication, UART and SPI Interface Ports, Unique 64-Bit Serial Number, Write-only Secrets	2.8 to 3.6	Yes
DS2478	DeepCover Automotive Secure Coprocessor	PRODUCTION	Asymmetric, Symmetric	Automotive Secure Authentication, IoT Node Crypto-Protection, IP Protection, Secure Authentication of Accessories and Peripherals, Secure Boot or Download	I2C	OTP	6 Kb	Certificate, ECDSA Authentication, I2C Interface, Memory Protection, Memory Protection Options, Random Number Generator, SHA Authentication, Serial Number, With GPIO	2.2V to 3.63V	Yes
DS28E30	1-Wire ECDSA Secure Authenticator	RECOMMENDED FOR NEW DESIGNS	Asymmetric	Asset Tracking, Battery ID and Authentication, Identification and Calibration, Medical Consumable ID, Medical Sensor Authentication and Calibration, Secure Authentication of Accessories and Peripherals	1-Wire	EEPROM	3Kbit	Certificate, Decrement Counter, ECDSA Authentication, Unique 64-Bit Serial Number	1.62V to 5V	-

	Description	Product Lifecycle	Crypto Engine	End Equipment	Bus Type	Memory Type	Memory Size	Features	VSUPPLY	Deep Cover
MAXQ1065	Ultra Low-Power Cryptographic Controller with ChipDNATM for Embedded Devices	RECOMMENDED FOR NEW DESIGNS	Asymmetric, Symmetric	Access Control, Electronic Access Control, IoT Node Crypto-Protection, Medical Sensor Authentication and Calibration, Secure Authentication of Accessories and Peripherals, Secure Boot or Download	SPI	Secure Non-Volatile Memory	8 KB	Certificate, Channel Encryption, ChipDNA PUF Technology, ECDSA Authentication, Memory Protection, SHA Authentication, Sleep Mode	1.62V to 3.63V	Yes
DS28E40	Deep Cover Automotive 1-Wire Authenticator	PRODUCTION	Asymmetric, Symmetric	Automotive Secure Authentication, Secure Authentication of Accessories and Peripherals, Secure Boot or Download	1-Wire	OTP	6 Kb	Certificate, ECDSA Authentication, Random Number Generator, SHA Authentication, With GPIO	2.97 to 3.63	Yes
DS28S60	DeepCover Cryptographic Coprocessor with ChipDNA	RECOMMENDED FOR NEW DESIGNS	Asymmetric, Symmetric	IoT Node Crypto-Protection, IP Protection, Secure Authentication of Accessories and Peripherals, Secure Boot or Download	SPI	Flash	3.6 KB	Certificate, ChipDNA PUF Technology, ECDSA Authentication, Memory Protection, Random Number Generator, Serial Number, SHA Authentication, With GPIO	1.71V to 3.63V	Yes
DS28C16	I ² C Low-Voltage SHA-3 Authenticator	RECOMMENDED FOR NEW DESIGNS	Symmetric	Access Control, Asset Tracking, Battery ID and Authentication, Identification Systems, IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security, Secure Access Control, Secure Authentication of Accessories and Peripherals	I2C	EEPROM	256 bits	Decrement Counter, Memory Protection, Memory Protection Options, Serial Number, SHA Authentication	1.71V to 3.63V	Yes
DS28C39	DeepCover Secure ECDSA Bidirectional Authenticator with ChipDNA PUF Protection	PRODUCTION	Asymmetric	IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security	I2C	EEPROM	2K x 1	Certificate, ChipDNA PUF Technology, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number	2.97 to 3.63	Yes

	Description	Product Lifecycle	Crypto Engine	End Equipment	Bus Type	Memory Type	Memory Size	Features	VSUPPLY	Deep Cover
DS28C50	DeepCover I2C Secure SHA-3 Authenticator with ChipDNA PUF Protection	PRODUCTION	Symmetric	Access Control, Asset Tracking, Identification Systems, IP Protection, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security, Secure Access Control, Secure Authentication of Accessories and Peripherals	I2C	EEPROM	2K x 1	ChipDNA PUF Technology, Decrement Counter, I2C Interface, Memory Protection, Memory Protection Options, Programmable IO, Random Number Generator, Serial Number, SHA Authentication, With GPIO	2.97 to 3.63	Yes
DS28C40	Deep Cover Automotive I ² C Authenticator	RECOMMENDED FOR NEW DESIGNS	Asymmetric, Symmetric	Automotive Secure Authentication, Identification and Calibration, Identification Systems, IoT Node Crypto-Protection, IP Protection, Secure Authentication of Accessories and Peripherals, Secure Boot or Download	I2C	-	6 Kb	Certificate, ECDSA Authentication, I2C Interface, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number, SHA Authentication, With GPIO	2.97 to 3.63	Yes
DS28E16	1-Wire Secure SHA-3 Authenticator	RECOMMENDED FOR NEW DESIGNS	Symmetric	Access Control, Asset Tracking, Battery ID and Authentication, Identification Systems, IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security, Secure Access Control, Secure Authentication of Accessories and Peripherals	1-Wire	EEPROM	256 bits	Decrement Counter, Memory Protection, Memory Protection Options, Serial Number, SHA Authentication	1.71V to 3.63V	Yes
DS28E84	DeepCover Radiation Resistant, High-Capacity 1-Wire Secure Authenticator	RECOMMENDED FOR NEW DESIGNS	-	IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration	1-Wire	EPROM	15k x 1 FRAM, 5K x 1	Certificate, Channel Encryption, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Programmable IO, Radiation Resistance, Random Number Generator, Serial Number, SHA Authentication, With GPIO	2.97 to 3.63	Yes

	Description	Product Lifecycle	Crypto Engine	End Equipment	Bus Type	Memory Type	Memory Size	Features	VSUPPLY	Deep Cover
DS28E39	DeepCover Secure ECDSA Bidirectional Authenticator with ChipDNA PUF Protection	RECOMMENDED FOR NEW DESIGNS	Asymmetric	IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security	1-Wire	EEPROM	2K x 1	Certificate, ChipDNA PUF Technology, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number	2.97 to 3.63	-
DS2477	DeepCover Secure SHA-3 Coprocessor with ChipDNA PUF Protection	RECOMMENDED FOR NEW DESIGNS	Symmetric	Companion Coprocessor, Identification Systems, IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security	1-Wire, I2C	EEPROM	2K x 1	ChipDNA PUF Technology, Decrement Counter, I2C to 1-Wire, Memory Protection, Memory Protection Options, Programmable IO, Random Number Generator, Serial Number, SHA Authentication, With GPIO	2.97 to 3.63	-
DS28E50	DeepCover Secure SHA-3 Authenticator with ChipDNA PUF Protection	RECOMMENDED FOR NEW DESIGNS	-	Access Control, Asset Tracking, Identification Systems, IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security, Secure Access Control	1-Wire	EEPROM	2K x 1	ChipDNA PUF Technology, Decrement Counter, Memory Protection, Memory Protection Options, Programmable IO, Random Number Generator, Serial Number, SHA Authentication, With GPIO	2.97 to 3.63	Yes
DS1964S	DeepCover Secure Authenticator iButton with SHA-256	RECOMMENDED FOR NEW DESIGNS	Symmetric	Access Control, Asset Tracking, Identification Systems, IP Protection, Medical Consumable ID, Secure Access Control	1-Wire	EEPROM	512 bits	Memory Protection, Memory Protection Options, Serial Number, SHA Authentication	2.97 to 3.63	Yes
DS28E83	DeepCover Radiation Resistant 1-Wire Secure Authenticator	RECOMMENDED FOR NEW DESIGNS	Asymmetric, Symmetric	IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration	1-Wire	EPROM	5K x 1	Certificate, Channel Encryption, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Programmable IO, Radiation Resistance, Random Number Generator, Serial Number, SHA Authentication, With GPIO	2.97 to 3.63	Yes

	Description	Product Lifecycle	Crypto Engine	End Equipment	Bus Type	Memory Type	Memory Size	Features	VSUPPLY	Deep Cover
DS28E36	DeepCover Secure Authenticator	PRODUCTION	Asymmetric, Symmetric	Access Control, Asset Tracking, Identification Systems, IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security, Secure Access Control	1-Wire	EEPROM	4K x 1	Certificate, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number, SHA Authentication, With GPIO	2.97 to 3.63	Yes
DS28E38	DeepCover® Secure ECDSA Authenticator with ChipDNA PUF Protection	RECOMMENDED FOR NEW DESIGNS	Asymmetric, Symmetric	IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security	1-Wire	EEPROM	2K x 1	Certificate, ChipDNA PUF Technology, Decrement Counter, ECDSA Authentication, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number	2.97 to 3.63	Yes
MAXQ1061	DeepCover Cryptographic Controller for Embedded Devices	PRODUCTION	Asymmetric, Symmetric	Access Control, Electronic Access Control, IoT Node Crypto-Protection, Medical Sensor Authentication and Calibration, Secure Authentication of Accessories and Peripherals, Secure Boot or Download	I2C, SPI	EEPROM	32KB	Certificate, Stream Encryption, ECDSA Authentication, SHA Authentication	3.0V to 3.4V	Yes
DS2476	DeepCover Secure Coprocessor	PRODUCTION	Asymmetric	Companion Coprocessor, IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Secure Access Control	I2C	EEPROM	4K x 1	Certificate, ECDSA Authentication, I2C Interface, Memory Protection, Random Number Generator, Serial Number, SHA Authentication, Sleep Mode, With GPIO	2.97 to 3.63	Yes
DS28C36	DeepCover Secure Authenticator	PRODUCTION	Asymmetric, Symmetric	IP Protection, Medical Consumable ID, Medical Sensor Authentication and Calibration, PCB ID and Authentication, Print Cartridge Authentication, Printer Cartridge Configuration and Monitoring, Rack Card Security	I2C	EEPROM	4K x 1	Certificate, Decrement Counter, ECDSA Authentication, I2C Interface, Memory Protection, Memory Protection Options, Random Number Generator, Serial Number, SHA Authentication, With GPIO	2.97 to 3.63	Yes

	Description	Product Lifecycle	Crypto Engine	End Equipment	Bus Type	Memory Type	Memory Size	Features	VSUPPLY	Deep Cover
DS28E80	Gamma Radiation Resistant 1-Wire Memory	RECOMMENDED FOR NEW DESIGNS	-	Gamma Sterilization, Medical Consumable ID	1-Wire	EEPROM	2K x 1	Radiation Resistant, Serial Number	2.97 to 3.63	-
MAX66242	DeepCover Secure Authenticator with ISO 15693, I ² C, SHA-256, and 4Kb User EEPROM	RECOMMENDED FOR NEW DESIGNS	Symmetric	Access Control, Asset Tracking, Electronic Access Control, IP Protection, Medical Sensor Authentication and Calibration, Printer Cartridge Configuration and Monitoring, System Intellectual Property Protection	I2C, ISO 15693	EEPROM	4K bits, 4K x 1	I2C Interface, Memory Protection, Programmable IO, Serial Number, SHA Authentication	2.97 to 3.63	Yes
MAX66300	DeepCover Secure Authenticator with SHA-256 and RFID Reader	RECOMMENDED FOR NEW DESIGNS	Symmetric	Asset Tracking, Handheld Reader Modules, Identification Systems, RFID/NFC General Purpose, Secure Access Control	ISO 15693	Flash	1K bits, 1K x 1	Antenna Short-Circuit Protection, Random Number Generator, SHA Authentication, UART and SPI Interface Ports, Unique 64-Bit Serial Number, Write-only Secrets	2.8 to 3.6	Yes
DS2475	DeepCover ECDSA Coprocessor with 1-Wire Master	PRODUCTION	Asymmetric	Companion Coprocessor, IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication	1-Wire, I2C	-	-	ECDSA Authentication, I2C to 1-Wire, I2C to 1-Wire Bus Master, Sleep Mode	2.97 to 3.63	Yes
MAX66240	DeepCover Secure Authenticator with ISO 15693, SHA-256, and 4Kb User EEPROM	RECOMMENDED FOR NEW DESIGNS	Symmetric	Access Control, Asset Tracking, eCash, Electronic Access Control, IP Protection, Medical Sensor Authentication and Calibration, Printer Cartridge Configuration and Monitoring, System Intellectual Property Protection	ISO 15693	EEPROM	4K bits, 4K x 1	Memory Protection, Serial Number, SHA Authentication	-	Yes
DS24L65	DeepCover Secure Authenticator with SHA-256 Coprocessor and 1-Wire Master Function	PRODUCTION	Symmetric	Companion Coprocessor, IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication	1-Wire, I2C	EEPROM	512 bits	I2C to 1-Wire, I2C to 1-Wire Bus Master, SHA Authentication, Sleep Mode	1.71 to 1.89	Yes
DS28C22	DeepCover Secure Memory with I2C SHA-256 and 3Kb User EEPROM	PRODUCTION	Symmetric	IP Protection, PCB ID and Authentication	I2C	EEPROM	3K x 1	Channel Encryption, Memory Protection Options, Serial Number, SHA Authentication	2.97 to 3.63	Yes

	Description	Product Lifecycle	Crypto Engine	End Equipment	Bus Type	Memory Type	Memory Size	Features	VSUPPLY	Deep Cover
DS28E35	DeepCover Secure Authenticator with 1-Wire ECDSA and 1Kb User EEPROM	PRODUCTION	Asymmetric	IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication, Rack Card Security	1-Wire	EEPROM	1K x 1	Certificate, Decrement Counter, ECDSA Authentication, Memory Protection Options, Serial Number	2.97 to 3.63	Yes
DS28EL22	DeepCover Secure Authenticator with 1-Wire SHA-256 and 2Kb User EEPROM	PRODUCTION	Symmetric	IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication	1-Wire	EEPROM	2K x 1	Memory Protection Options, Serial Number, SHA Authentication	1.71 to 1.89	Yes
DS28EL15	DeepCover Secure Authenticator with 1-Wire SHA-256 and 512-Bit User EEPROM	PRODUCTION	Symmetric	IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication	1-Wire	EEPROM	512 bits	Memory Protection Options, Serial Number, SHA Authentication	1.71 to 1.89	Yes
DS28E22	DeepCover Secure Authenticator with 1-Wire SHA-256 and 2Kb User EEPROM	PRODUCTION	Symmetric	IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication	1-Wire	EEPROM	2K x 1	Memory Protection Options, Serial Number, SHA Authentication	2.97 to 3.63	Yes
DS28E25	DeepCover Secure Authenticator with 1-Wire SHA-256 and 4Kb User EEPROM	PRODUCTION	Symmetric	IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication, Rack Card Security	1-Wire	EEPROM	4K x 1	Memory Protection Options, Serial Number, SHA Authentication	2.97 to 3.63	Yes
DS28E15	DeepCover Secure Authenticator with 1-Wire SHA-256 and 512-Bit User EEPROM	RECOMMENDED FOR NEW DESIGNS	Symmetric	IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication	1-Wire	EEPROM	512 bits	Memory Protection Options, Serial Number, SHA Authentication	2.97 to 3.63	Yes
DS2465	DeepCover Secure Authenticator with SHA-256 Coprocessor and 1-Wire Master Function	RECOMMENDED FOR NEW DESIGNS	Symmetric	Companion Coprocessor, IP Protection, Medical Consumable ID, PCB ID and Authentication, Print Cartridge Authentication	1-Wire, I2C	EEPROM	512 bits	I2C to 1-Wire, I2C to 1-Wire Bus Master, SHA Authentication, Sleep Mode	2.8 to 3.6, 2.97 to 3.63	Yes
DS28E02	1-Wire SHA-1 Authenticated 1Kb EEPROM with 1.8V Operation	PRODUCTION	Symmetric	-	1-Wire	EEPROM	1K x 1	Memory Protection Options, Serial Number, SHA Authentication	1.75 to 3.65	-

	Description	Product Lifecycle	Crypto Engine	End Equipment	Bus Type	Memory Type	Memory Size	Features	VSUPPLY	Deep Cover
DS28E10	1-Wire SHA-1 Authenticator	PRODUCTION	Symmetric	-	1-Wire	EPROM	28 Bytes	Memory Protection Options, Serial Number, SHA Authentication	2.8 to 3.6	-
DS28E01-100	1Kb Protected 1-Wire EEPROM with SHA-1 Engine	PRODUCTION	Symmetric	Rack Card Security	1-Wire	EEPROM	1K x 1	Memory Protection Options, Serial Number, SHA Authentication	2.8 to 5.25	-

Secure Microcontrollers

Parts	Description	Product Lifecycle	MCU Core	Internal Flash	Core Clock Speed ^{max}	Data Processing	Internal SRAM	UARTs	USARTs	SPI Bus	I2C Bus	USB	GPIO Pins ^{max}	VSUPPLY	Active Power
MAX32561	DeepCover Secure Arm Cortex-M3 Flash Microcontroller	PRODUCTION	ARM Cortex-M3	1000	108	32-bit	384	2	-	2	1 Master	USB 2.0 High Speed	39	3.0 to 3.6 (IO)	-
MAX32592	DeepCover Secure Microcontroller with ARM926EJ-S Processor Core	PRODUCTION	ARM926EJ-S	-	384	32-bit	384	-	3	3	1 Master/Slave	1 x 2.0 FS Device, 1 x 2.0 FS Host	126	0.87 to 1.1 (Core), 1.7 to 1.9 (LP memory), 2.4 to 3.6 (Battery), 3.0 to 3.6 (IO)	-
MAX32520	ChipDNA Secure Arm Cortex M4 Microcontroller	PRODUCTION	ARM Cortex-M4F	2048	120	32-bit	170	1	-	1	1 Master/Slave	-	27	1.7 to 3.6	-
MAX32570	Low-Power Arm Cortex-M4 Microcontroller with Contactless Radio for Secure Applications	RECOMMENDED FOR NEW DESIGNS	ARM Cortex-M4F	1000	150	32-bit	760	6	-	3	3 Master, 3 Slave	USB 2.0 HS Device	104	3.0 to 3.6	-
MAX32591	DeepCover Secure Microcontroller with ARM926EJ-S Processor Core	PRODUCTION	ARM926EJ-S	-	384	32-bit	384	-	3	5	1 Master/Slave	1 x 2.0 FS Device, 1 x 2.0 FS Host	126	0.87 to 1.1 (Core), 1.7 to 1.9 (LP memory), 2.4 to 3.6 (Battery), 3.0 to 3.6 (IO)	-
MAX32558	DeepCover Secure ARM Cortex-M3 Flash Microcontroller	PRODUCTION	ARM Cortex-M3	512	60	32-bit	96	1	1	1	1 Master/Slave	1 x 2.0 FS Device, Device Including Transceiver	27	3.0 to 3.6 (IO)	-
MAX32510	DeepCover Secure Arm Cortex-M3-Based Flash Microcontroller	PRODUCTION	ARM Cortex-M3	512	60	32-bit	96	1	2	2	1 Master	1 x 2.0 FS Device, Device Including Transceiver	-	3.0 to 3.6 (IO)	-
MAX32552	DeepCover Secure Arm Cortex-M3 Flash Microcontroller	PRODUCTION	ARM Cortex-M3	1000	108	32-bit	384	-	2	3	2 Master	1 x 2.0 FS Device, Device Including Transceiver	64	3.0 to 3.6 (IO)	-
MAX32560	DeepCover Secure Arm Cortex-M3 Flash Microcontroller	PRODUCTION	ARM Cortex-M3	1000	108	32-bit	384	-	2	3	2 Master	1 x 2.0 FS Device, Device Including Transceiver	-	3.0 to 3.6 (IO)	-

	Description	Product Lifecycle	MCU Core	Internal Flash	Core Clock Speed ^{max}	Data Processing	Internal SRAM	UARTs	USARTs	SPI Bus	I2C Bus	USB	GPIO Pins ^{max}	VSUPPLY	Active Power
MAX32555	DeepCover Secure Arm Cortex-M3 Flash Microcontroller	PRODUCTION	ARM Cortex-M3	512	60	-	-	3	3	3	1 Master/Slave	1 x 2.0 FS Device, Device Including Transceiver	70	3.0 to 3.6 (IO)	-
MAX32550	DeepCover Secure Arm Cortex-M3 Flash Microcontroller	PRODUCTION	ARM Cortex-M3	1000	108	-	256	2	2	3	1 Master/Slave	1 x 2.0 FS Device, Device Including Transceiver	70	3.0 to 3.6 (IO)	-
MAXQ1744	DeepCover Ultra-Low Power Magnetic Card Reader Security Microprocessor	PRODUCTION	-	-	-	-	-	-	-	1	1 Master/Slave	-	-	2.1 to 3.6	-
MAXQ1743	DeepCover Secure Magnetic Card Reader IC	PRODUCTION	-	-	-	-	-	-	-	1	1 Master/Slave	-	-	1.7 to 3.6	-
MAXQ1741	DeepCover Secure Microcontroller for Magnetic Card Reading	PRODUCTION	MAXQ20	16	12	16-bit	1	-	1	2	1 Master/Slave	-	16	1.7 to 3.6	0.8 (1MHz), 3.75 (6MHz)
MAX32590	DeepCover Secure Microcontroller with ARM926EJ-S Processor Core	PRODUCTION	ARM926EJ-S	-	384	32-bit	384	-	3	5	1 Master/Slave	1 x 2.0 FS Device, 1 x 2.0 FS Host	160	0.87 to 1.1 (Core), 1.7 to 1.9 (LP memory), 2.4 to 3.6 (Battery), 3.0 to 3.6 (IO)	-
MAXQ1850	DeepCover Secure Microcontroller with Rapid Zeroization Technology and Cryptography	PRODUCTION	MAXQ30	-	16	16-bit	-	-	-	-	-	-	-	-	-
DS5003	Secure Microprocessor Chip	PRODUCTION	8051 (CISC)	-	16	8-bit	0.25	-	1	-	-	-	32	3.85 to 5.5	-
DS5002FP	Secure Microprocessor Chip	PRODUCTION	8051 (CISC)	-	16	8-bit	0.125	-	1	-	-	-	32	3.85 to 5.5	-

Security Managers

Parts	Description	Product Lifecycle	Internal Key Memory	# Analog Voltages Monitored	# Digital Inputs Monitored	Deep Cover
MAX36210	Security Supervisor with SP800-90A TRNG, Tamper Detection, and Cryptography	PRODUCTION	1024	-	2	Yes
MAX36010	Security Supervisor with Tamper Detection and Cryptography	PRODUCTION	1024	-	2	Yes
MAX36011	Security Supervisor with Tamper Detection and Cryptography	PRODUCTION	1024	-	2	Yes
DS3660	DeepCover Security Manager for Low-Voltage Operation with 1KB Secure Memory and Programmable Tamper Hierarchy	PRODUCTION	1024	4	2	Yes
MAX36051	DeepCover Security Manager with 128 Bytes of Nonimprinting Memory	PRODUCTION	128	2	0	Yes
DS3644	DeepCover Security Manager with 1KB Secure Memory and Programmable Tamper Hierarchy	PRODUCTION	1024	4	2	Yes
DS3645	4KB Secure Memory with Tamper Protection for Network Server Applications	PRODUCTION	4096	12	4	Yes
DS3655	DeepCover Security Manager with Ultra-Low-Power Tamper Detection and Nonimprinting Memory	PRODUCTION	64	-	4	Yes
DS3605	DeepCover Security Manager for NV SRAM Control with RTC and Thermal Tamper Detection	PRODUCTION	-	4	1	Yes
DS3650	DeepCover Security Manager with Thermal Tamper Detection	PRODUCTION	-	2	-	Yes
DS3600	DeepCover Security Manager with 64B Nonimprinting, Battery-Backed Encryption Key SRAM	PRODUCTION	64	4	1	Yes
DS3640	DeepCover Security Manager with I ² C Interface and 1KB Nonimprinting Battery-Backed Encryption Key SRAM	PRODUCTION	1024	5	3	Yes
DS3641	DeepCover Security Manager with SPI-Compatible Interface and 1KB Nonimprinting Key Memory	PRODUCTION	1024	5	3	Yes

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