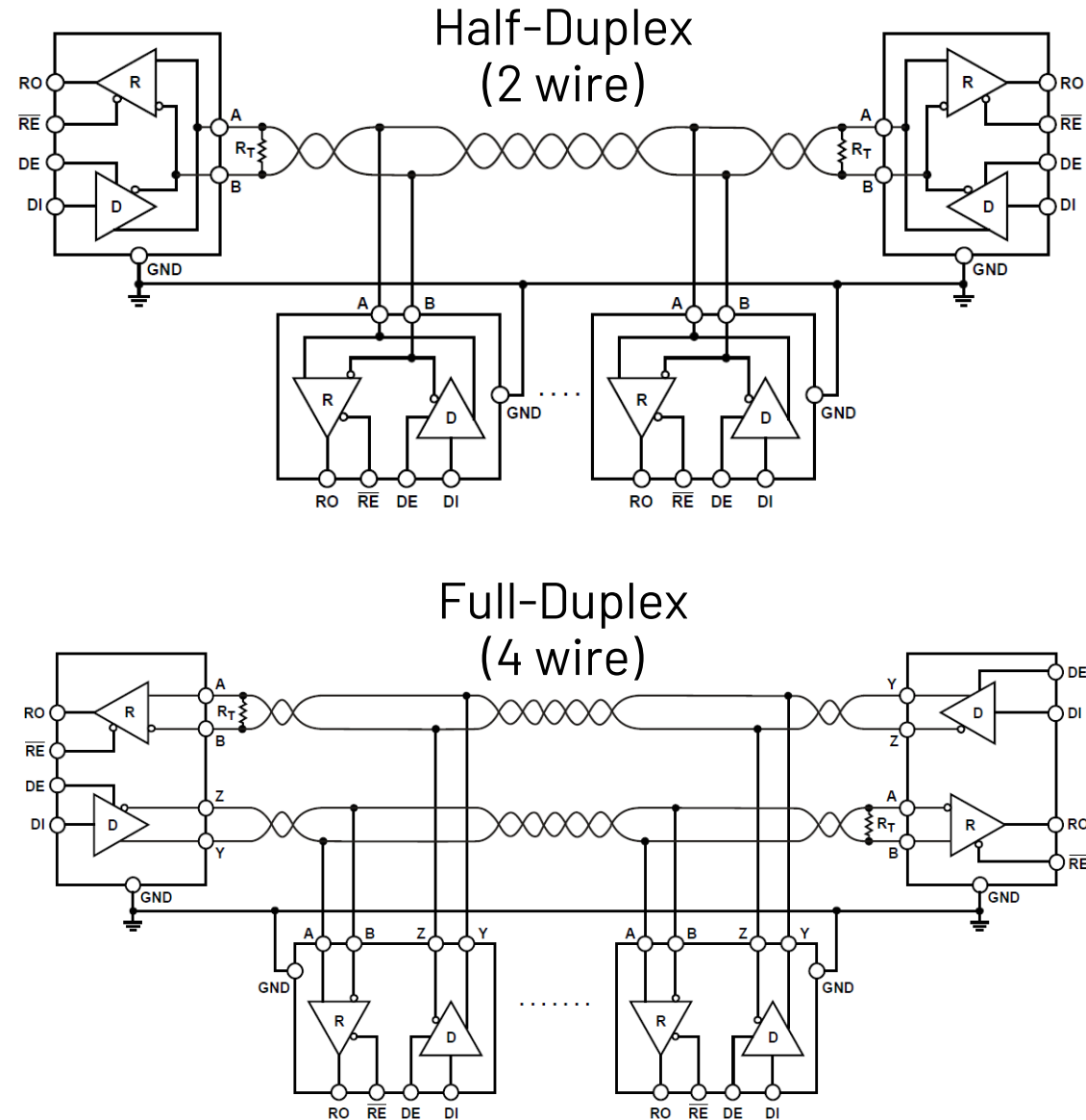


RS-485 Product Selector Guide

RS-485 Protocol

RS-485/RS-422

- Multidrop Communication
- Up to 100Mbps
- Half or Full-Duplex
- 1,200m or 4000ft
- Robust Differential Signaling
- High common mode tolerance



RS-485: What Are You Looking For?

Use this Product Selector Guide to help you
choose the RS-485 transceiver to fit your application needs

Let me choose the
parameters that fit my
application

- Supply Voltage
- Half or Full Duplex
- Data Rate

[Click here to use the product selection matrix](#)

Let me choose based specific
feature sets

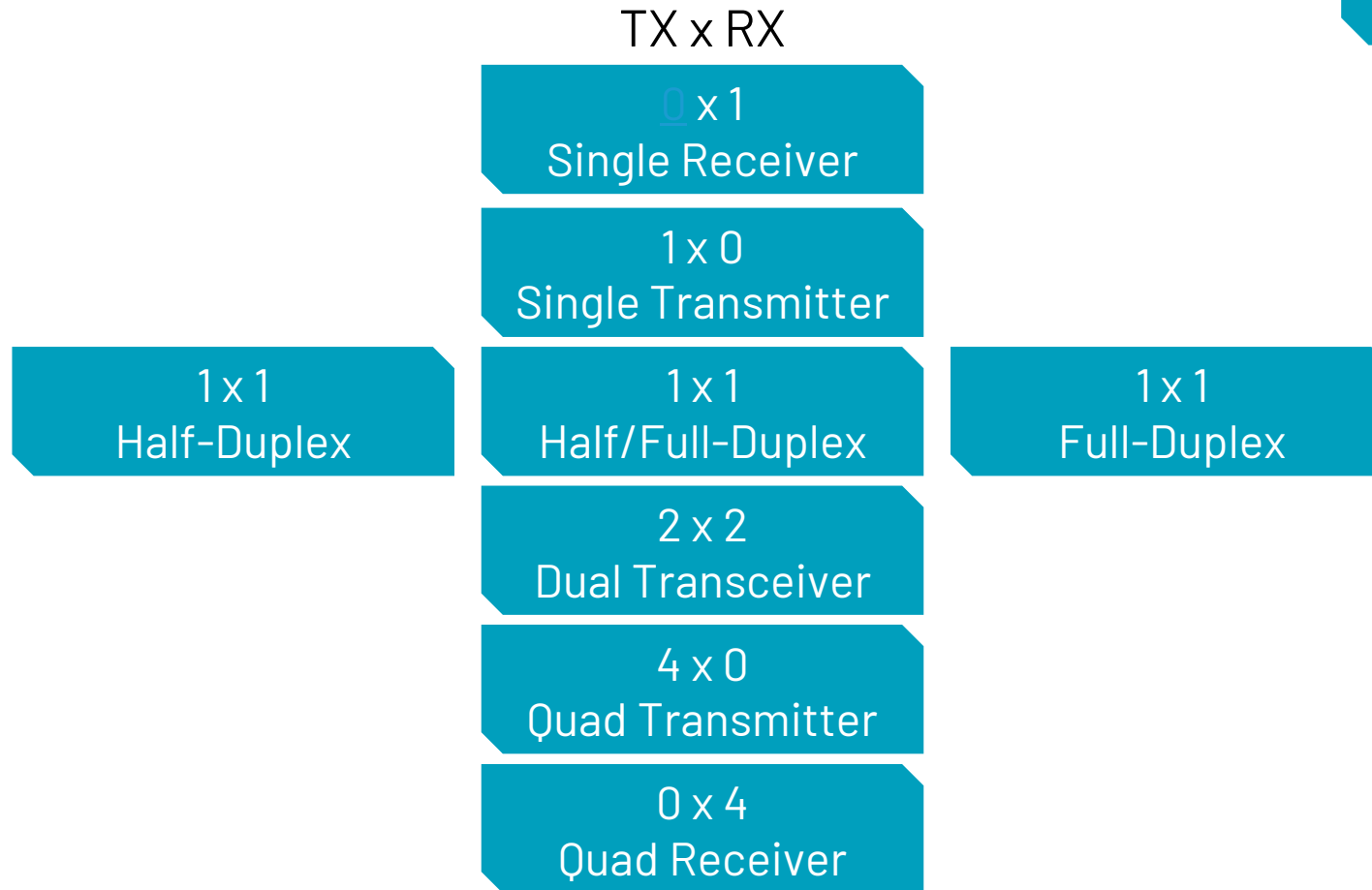
- Low Power
- Auto-Direction
- Integrated Termination
- Fault Protection
- High CMR
- Small Footprint
- High ESD, EFT, Surge Protection
- High Speed (>50Mbps)
- Profibus
- Low Logic

[Click here to select features](#)

RS-485 TX/RX Primary Configuration

Transmitter (TX) Count and Receiver (RX) Count

[Back to the Start](#)



RS-485/RS-422 Product Feature Highlight

Low Power

Auto-Direction

Integrated Switchable
Termination

Fault Protection

High CMR

Small Footprint

High ESD, EFT, Surge Protection

High Speed (>50Mbps)

Profibus

Low Logic

Automotive Qualified AEC-Q100

Back to the Start

RS-485 Half-Duplex Supply Voltage

+2.5V to +5.5V

+3.3V

+5V

+3.3V to +5V

+6V to +28V

[Back to the Start](#)

[Back to TX/RX
Configuration](#)

RS-485 Full-Duplex Supply Voltage

[Back to the Start](#)

[Back to TX/RX
Configuration](#)

+3.3V

+5V

+3.3V to +5V

RS-485 Half/Full-Duplex Supply Voltage

[Back to the Start](#)

[Back to TX/RX
Configuration](#)

+3.3V

+5V

RS-485, +3.3V, Half-Duplex Data Rate

$\leq 1\text{Mbps}$

$\leq 2.5\text{Mbps}$

$\leq 20\text{Mbps}$

$\leq 52\text{Mbps}$

[Back to the Start](#)

[Back to Half-Duplex Supply Selection](#)

RS-485, +5V, Half-Duplex Data Rate

$\leq 1\text{Mbps}$

$\leq 2.5\text{Mbps}$

$\leq 20\text{Mbps}$

$\leq 52\text{Mbps}$

Back to the Start

Back to Half-
Duplex Supply
Selection

RS-485, +3.3V to +5V, Half-Duplex Data Rate

$\leq 1\text{Mbps}$

$\leq 2.5\text{Mbps}$

$\leq 20\text{Mbps}$

$\leq 52\text{Mbps}$

100Mbps

Back to the Start

Back to Half-
Duplex Supply
Selection

RS-485, +3.3V, Full-Duplex Data Rate

Back to the Start

Back to Full-
Duplex Supply
Selection

$\leq 1\text{Mbps}$

$\leq 20\text{Mbps}$

RS-485, +5V, Full-Duplex Data Rate

$\leq 1\text{Mbps}$

$\leq 2.5\text{Mbps}$

$\leq 20\text{Mbps}$

$\leq 52\text{Mbps}$

[Back to the Start](#)

[Back to Full-Duplex Supply Selection](#)

RS-485, +3.3 to +5V, Full-Duplex Data Rate

$\leq 1\text{Mbps}$

$\leq 20\text{Mbps}$

$\leq 52\text{Mbps}$

100Mbps

Back to the Start

Back to Full-
Duplex Supply
Selection

RS-485, +5V, Half/Full-Duplex Data Rate

[Back to the Start](#)

[Back to
Half/Full-Duplex
Supply Selection](#)

$\leq 1\text{Mbps}$

$\leq 20\text{Mbps}$

Guided Selection Slides

RS-485/RS-422 Single Receivers

[Back to Primary Configuration](#)

Part Number	Supply	Data Rate	ESD (HBM / IEC Contact, Air-Gap)	Number of Nodes	Fault Protection	CMR	Special Features
MAX3280E	+3.3V to +5V	52Mbps	±15kV HBM ±6kV Contact ±12kV Air-Gap	128	N/A	-7V to +12	- Single Receiver - AEC-Q100 Qualified (MAX3280EAU/V+ only) - Small 6-pin SOT 23 Package
MAX3281E	+3.3V to +5V	52Mbps	±15kV HBM ±6kV Contact ±12kV Air-Gap	128	N/A		- Single Receiver with Active High enable pin - Small 6-pin SOT 23 Package
MAX3283E	+3.3V to +5V	52Mbps	±15kV HBM ±6kV Contact ±12kV Air-Gap	128	N/A		- Single Receiver with Active Low enable pin - Small 6-pin SOT 23 Package
MAX3284E	+3.3V to +5V	52Mbps	±15kV HBM ±6kV Contact ±12kV Air-Gap	128	N/A		- Single Receiver with VL pin - Small 6-pin SOT 23 Package

RS-485/RS-422 Single Transmitters

[Back to Primary Configuration](#)

Part Number	Supply	Data Rate	ESD (HBM / IEC Contact, Air-Gap)	Number of Nodes	Fault Protection	CMR	Special Features
MAX3293	+3.3V	0.25Mbps	±15kV HBM	N/A	N/A	±25V	• AEC-Q100 Qualified (MAX3295AUT/V+) • Space saving 6 pin SOT23 Package
MAX3294	+3.3V	2.5Mbps					
MAX3295	+3.3V	20Mbps					

RS-422 Dual Transceiver

Back to Primary
Configuration

Part Number	Supply	Data Rate	ESD (HBM / IEC Contact, Air-Gap)	Number of Nodes	Fault Protection	CMR	Special Features
ADM4168E	+5V	30Mbps	±15kV HBM ±8kV Contact ±8kV Air-Gap	N/A	N/A	±7V	• Hot Swapable • Low-Power (100uA No Load Supply Current)

RS-485/RS-422 Quad Transmitter

[Back to Primary Configuration](#)

Part Number	Supply	Data Rate	ESD (HBM / IEC Contact, Air-Gap)	Number of Nodes	Fault Protection	CMR	Special Features
MAX3030E-33E	+3.3V	20Mbps	±15kV HBM	N/A	N/A	±25V	• Hot Swapable • Low-Power (100uA No Load Supply Current)
MAX3040-45	+5V	20Mbps	±10kV HBM	N/A	N/A		• ±4kV IEC1000-4-4 EFT
LTC1688	+3.3V - +5V	100Mbps	±6kV HBM	N/A	N/A		• Low Channel-to-Channel skew (500ps typ) • Low Differential Skew (t_{PLH}/t_{PHL}, 500ps typ)

RS-485/RS-422 Quad Receiver

[Back to Primary Configuration](#)

Part Number	Data Rate	ESD (HBM / IEC Contact, Airgap)	Number of Nodes	Fault Protection	CMR	Special Features
MAX14890E	35Mbps	±25kV / ±10kV / ±7kV	N/A	+/-40V	±20V	• RS-422/HTL/TTL/DI receivers • SPI or pin-controlled • Per-Receiver Configuration • 1.62V - 5V logic interface
MAX14891E	35Mbps	±25kV / ±10kV / ±7kV	N/A	+/-40V	±20V	• 1.62V - 5V logic interface
MAX33076E-79	20Mbps	±25kV / ±4kV / ±4kV	128	+/-65V	±25V	

RS-485 Half-Duplex, +3.3V, ≤1Mbps

Back to the
Previous
Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2862A-2	250Kbps	±40kV / ±8kV / NA	256	+/-60V	-25V to +25V	• ±4kV EFT IEC61000-4-4
LTC2862-2	250Kbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	
ADM3061E	500Kbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	• Small 3mm x 3mm Package
MAX3483AE	250Kbps	±20kV / ±8kV / ±15kV	128	NA	-7V to +12V	• Hot-Swap Protection
MAX33045E	500Kbps	±40kV / ±10kV / ±15kV	256	+/-25V	-7V to +12V	• Hot-Swap Protection
MAX33070E	500Kbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection
MAX33072E	500Kbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection • Polarity Reversal
MAX13430E	500Kbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	• Low Logic Supply • Ultra Low Supply Current • 3mm x 3mm Package

RS-485 Half-Duplex, +3.3V, ≤ 2.5Mbps

Back to the
Previous
Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
ADM3486E	2.5Mbps	±15kV / NA / NA	32	NA	-7V to +12V	
LTC1480	2.5Mbps	NA	32	NA	-7V to +12V	• Low No-Load Supply Current (600µA) • Low Shutdown Supply Current (1µA)
MAX33073E	2Mbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection • Polarity Reversal
MAX33071E	2Mbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection
ADM3095E	2Mbps	±30kV / ±8kV / ±15kV	256	+/-42V	-25V to +25V	• ±4kV IEC 61000-4-5 Surge • ±2kV IEC61000-4-4 EFT • 10V/m rms IEC61000-4-6 Conducted RF Immunity

RS-485 Half-Duplex, +3.3V, ≤ 20Mbps

Back to the
Previous
Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX33046E	20Mbps	±40kV / ±10kV / ±15kV	256	+/-25V	-7V to +12V	Hot-Swap Protection
MAX33074E	20Mbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	Hot-Swap Protection
MAX3485AE	20Mbps	±20kV / ±8kV / ±15kV	128	NA	-7V to +12V	Hot-Swap Protection
MAX13431E	16Mbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current
LTC2850	20Mbps	±15kV / NA / NA	256	NA	-7V to +12V	- Available in 3mm x 3mm DFN - Low Shutdown and Operating Current
LTC2854	20Mbps	±25kV / NA / NA	256	NA	-7V to +12V	- Switchable Integrated Termination Resistor - Low Operating and Shutdown Current
LTC2862A-1	20Mbps	±40kV / ±8kV / NA	256	+/-60V	-25V to +25V	±4kV EFT IEC61000-4-4
LTC2862-1	20Mbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds

RS-485 Half-Duplex, +3.3V, ≤ 52Mbps

Back to the
Previous
Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
ADM3066E	50Mbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	• Hot Swap Protection • Small 3mm x 3mm Package Options
MAX14783E	42Mbps	±35kV / ±12kV / ±20kV	32	NA	-7V to +12V	• ±4kV IEC 61000-4-2 EFT Protection • Hot Swap Protection
MAX14840E	40Mbps	±35kV / ±12kV / ±20kV	32	NA	-7V to +12V	• Hot Swap Protection • Symmetrical Fail-Safe • Large Receiver Input Hysteresis for Improved Noise Margin
MAX14841E	40Mbps	±35kV / ±12kV / ±20kV	32	NA	-7V to +12V	• Hot Swap Protection
MAX22506E	50Mbps	±15kV / ±6kV / ±7kV	71	NA	-15V to +15V	• Symmetrical Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin

RS-485 Half-Duplex, +5V, ≤ 1Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2862A-2	250Kbps	±40kV / ±8kV / NA	256	+/-60V	-25V to +25V	• ±4kV EFT IEC61000-4-4
MAX13442E	250Kbps	±15kV / NA / NA	128	+/-80V	-7V to +12V	• Hot Swap Protection
MAX33045E	500Kbps	±40kV / ±10kV / ±15kV	256	+/-25V	-7V to +12V	• Hot-Swap Protection
MAX33072E	500Kbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection • Polarity Reversal
MAX14781E	370Kbps	±25kV / ±9kV / ±15kV	256	N/A	-7V to +12V	• Hot-Swap Protection • Polarity Reversal
ADM3062E	500Kbps	±30kV / ±12kV / ±12kV	128	N/A	-7V to +12V	• Low Logic Supply • Small 3mm x 3mm Package
MAX13430E	500Kbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	• Low Logic Supply • Ultra Low Supply Current • 3mm x 3mm Package

RS-485 Half-Duplex, +5V, $\leq 2.5\text{Mbps}$

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX485	2.5Mbps	NA	32	NA	-7V to +12V	
ADM4852	2.5Mbps	NA	256	NA	-7V to +12V	
MAX33071E	2Mbps	$\pm 40\text{kV}$ / $\pm 10\text{kV}$ / $\pm 15\text{kV}$	256	$\pm 65\text{V}$	-40V to +40V	Hot-Swap Protection
MAX33073E	2Mbps	$\pm 40\text{kV}$ / $\pm 10\text{kV}$ / $\pm 15\text{kV}$	256	$\pm 65\text{V}$	-40V to +40V	- Hot-Swap Protection - Polarity Reversal
ADM3095E	2.5Mbps	$\pm 30\text{kV}$ / $\pm 8\text{kV}$ / $\pm 15\text{kV}$	256	$\pm 42\text{V}$	-25V to +25V	$\pm 4\text{kV}$ IEC 61000-4-5 Surge $\pm 2\text{kV}$ IEC61000-4-4 EFT 10V/m rms IEC61000-4-6 Conducted RF Immunity

RS-485 Half-Duplex, +5V, ≤ 20Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX33074E	20Mbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	Hot-Swap Protection
MAX33046E	20Mbps	±40kV / ±10kV / ±15kV	256	+/-25V	-7V to +12V	Hot-Swap Protection
MAX14775E	20Mbps	±8kV / ±5kV / NA	100	+/-65V	-25V to +25V	- Large Receiver Input Hysteresis for Improved Noise Margin - Hot-Swap Protection
LTC2862A-1	20Mbps	±40kV / ±8kV / NA	256	+/-60V	-25V to +25V	±4kV EFT IEC61000-4-4
ADM4853	10Mbps	NA / NA / NA	256	N/A	-7V to +12V	
LTC2859	20Mbps	±15kV / NA / NA	256	N/A	-7V to +12V	- Integrated Switchable Termination - Small 3mm x 3mm Package
MAX13443E	10Mbps	±15kV / NA / NA	128	+/-60V	-7V to +12V	
MAX13431E	16Mbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current

RS-485 Half-Duplex, +5V, ≤ 52Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX3469	30Mbps	NA / NA / NA	128	NA	-7V to +12V	• Profibus Compliant
ADM1485	30Mbps	NA / NA / NA	32	NA	-7V to +12V	
ADM3065E	50Mbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	• Small 3mm x 3mm Package
MAX14783E	42Mbps	±35kV / ±12kV / ±20kV	32	NA	-7V to +12V	• ±4kV IEC 61000-4-2 EFT Protection • Hot Swap Protection
MAX22506E	50Mbps	±15kV / ±6kV / ±7kV	71	NA	-15V to +15V	• Symmetrical Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin

RS-485 Half-Duplex, +3.3V to +5V, ≤ 1Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX33070E	500Kbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection
MAX33072E	500Kbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection • Polarity Reversal
MAX33045E	500Kbps	±40kV / ±10kV / ±15kV	256	+/-25V	-7V to +12V	• Hot-Swap Protection
LTC2862-2	250Kbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	
LTC2862A-2	250Kbps	±40kV / ±8kV / NA	256	+/-60V	-25V to +25V	• ±4kV EFT IEC61000-4-4
MAX13430E	500Kbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	• Low Logic Supply • Ultra Low Supply Current • 3mm x 3mm Package
ADM3061E	500Kbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	• Small 3mm x 3mm Package
MAX14782E	500Kbps	±35kV / ±12kV / ±20kV	32	NA	-7V to +12V	• ±4kV IEC 61000-4-4 EFT
MAX14776E	500Kbps	±8kV / ±5kV / NA	100	+/-65V	-25V to +25V	• Large Receiver Input Hysteresis for Improved Noise Margin • Hot-Swap Protection

RS-485 Half-Duplex, +3.3V to +5V, ≤ 2.5Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX33073E	2Mbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection • Polarity Reversal
MAX33071E	2Mbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection
ADM3095E	2.5Mbps	±30kV / ±8kV / ±15kV	256	+/-42V	-25V to +25V	• ±4kV IEC 61000-4-5 Surge • ±2kV IEC61000-4-4 EFT • 10V/m rms IEC61000-4-6 Conducted RF Immunity

RS-485 Half-Duplex, +3.3V to +5V, ≤ 20Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2862A-1	20Mbps	±40kV / ±8kV / NA	256	+/-60V	-25V to +25V	±4kV EFT IEC61000-4-4
LTC2862-1	20Mbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds
MAX33074E	20Mbps	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	Hot-Swap Protection
MAX33046E	20Mbps	±40kV / ±10kV / ±15kV	256	+/-25V	-7V to +12V	Hot-Swap Protection
MAX13431E	16Mbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current
MAX14775E	20Mbps	±8kV / ±5kV / NA	100	+/-65V	-25V to +25V	- Large Receiver Input Hysteresis for Improved Noise Margin - Hot-Swap Protection

RS-485 Half-Duplex, +3.3V to +5V, ≤ 52Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
ADM3066E	50Mbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	- Hot Swap Protection - Small 3mm x 3mm Package Options
ADM3065E	50Mbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	Small 3mm x 3mm Package
MAX14783E	42Mbps	±35kV / ±12kV / ±20kV	32	NA	-7V to +12V	±4kV IEC 61000-4-2 EFT Protection - Hot Swap Protection
MAX22506E	50Mbps	±15kV / ±6kV / ±7kV	71	NA	-15V to +15V	- Symmetrical Receiver Thresholds with Fail-Safe ±4kV IEC 61000-4-4 EFT Protection ±2kV IEC 61000-4-5 Surge Protection - Large Receiver Input Hysteresis for Improved Noise Margin

RS-485 Half-Duplex, +3.3V to +5V, 100Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX22500E	100Mbps	±15kV / ±6kV / ±7kV	NA	NA	-15V to +15V	• ±4kV IEC 61000-4-4 EFT Protection • Pre-Emphasis for Driving Longer Cables at Higher Data Rates • Large Receiver Input Hysteresis for Improved Noise Margin • Symmetrical Receiver Thresholds with Fail-Safe • Low Logic Supply
MAX22501E	100Mbps	±15kV / ±6kV / ±7kV	NA	NA	-15V to +15V	• ±4kV IEC 61000-4-4 EFT Protection • Large Receiver Input Hysteresis for Improved Noise Margin • Symmetrical Receiver Thresholds with Fail-Safe

RS-485 Half-Duplex, +2.5V to +5V

Back to the
Previous
Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX3471	64Kbps	NA / NA / NA	256	NA	-7V to +12V	

RS-485 Half-Duplex, +6V to +28V

Back to the
Previous
Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX13410E	500kbps	±14kV / NA / NA	256	NA	-7V to 12V	
MAX13411E	16Mbps	±14kV / NA / NA	256	NA	-7V to 12V	
MAX13412E	50kbps	±15kV / NA / NA	256	NA	-7V to 12V	• AutoDirection • +5V LDO Output
MAX13413E	16Mbps	±15kV / NA / NA	256	NA	-7V to 12V	• AutoDirection • +5V LDO Output

RS-485 Full-Duplex, +3.3V, $\leq 1\text{Mbps}$

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
ADM3064E	500Kbps	$\pm 30\text{kV}$ / $\pm 12\text{kV}$ / $\pm 12\text{kV}$	128	NA	-7V to +12V	- Small 3mm x 3mm Package - Low Logic Supply
MAX3488AE	250Kbps	$\pm 20\text{kV}$ / $\pm 8\text{kV}$ / $\pm 15\text{kV}$	128	NA	-7V to +12V	Hot Swap Protection
MAX13432E	500Kbps	$\pm 30\text{kV}$ / $\pm 10\text{kV}$ / $\pm 15\text{kV}$	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current
MAX14787E	500Kbps	$\pm 35\text{kV}$ / $\pm 8\text{kV}$ / $\pm 18\text{kV}$	32	NA	-7V to +12V	Integrated Receiver Deglitch Filter
MAX14784E	500Kbps	$\pm 35\text{kV}$ / $\pm 8\text{kV}$ / $\pm 18\text{kV}$	32	NA	-7V to +12V	Integrated Receiver Deglitch Filter
LTC2863-2	250Kbps	$\pm 15\text{kV}$ / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds
LTC2864-2	250Kbps	$\pm 15\text{kV}$ / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds

RS-485 Full-Duplex, +3.3V, $\leq 20\text{Mbps}$

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2863-1	20Mbps	$\pm 15\text{kV}$ / NA / NA	256	$\pm 60\text{V}$	-25V to +25V	Symmetric Receiver Input Thresholds
LTC2864-1	20Mbps	$\pm 15\text{kV}$ / NA / NA	256	$\pm 60\text{V}$	-25V to +25V	Symmetric Receiver Input Thresholds
MAX33048E	20Mbps	$\pm 40\text{kV}$ / $\pm 10\text{kV}$ / $\pm 15\text{kV}$	256	$\pm 25\text{V}$	-7V to +12V	Hot Swap Protection
MAX13433E	16Mbps	$\pm 30\text{kV}$ / $\pm 10\text{kV}$ / $\pm 15\text{kV}$	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current 3mm x 3mm Package
MAX3490AE	20Mbps	$\pm 20\text{kV}$ / $\pm 8\text{kV}$ / $\pm 15\text{kV}$	128	NA	-7V to +12V	Hot Swap Protection
MAX3491AE	20Mbps	$\pm 20\text{kV}$ / $\pm 8\text{kV}$ / $\pm 15\text{kV}$	128	NA	-7V to +12V	Hot Swap Protection
LTC2865	20Mbps	$\pm 15\text{kV}$ / NA / NA	256	$\pm 60\text{V}$	-25V to +25V	- Symmetric Receiver Input Thresholds - Low Logic Supply

RS-485 Full-Duplex, +5V, $\leq 1\text{Mbps}$

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2863-2	250Kbps	$\pm 15\text{kV}$ / NA / NA	256	$\pm 60\text{V}$	-25V to +25V	Symmetric Receiver Input Thresholds
LTC2864-2	250Kbps	$\pm 15\text{kV}$ / NA / NA	256	$\pm 60\text{V}$	-25V to +25V	Symmetric Receiver Input Thresholds
MAX13448E	500Kbps	$\pm 8\text{kV}$ / NA / NA	256	$\pm 80\text{V}$	-7V to +12V	
LTC2857-2	250Kbps	$\pm 15\text{kV}$ / NA / NA	256	NA	-7V to +12V	
LTC2858-2	250Kbps	$\pm 15\text{kV}$ / NA / NA	256	NA	-7V to +12V	
MAX13432E	500Kbps	$\pm 30\text{kV}$ / $\pm 10\text{kV}$ / $\pm 15\text{kV}$	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current
MAX14787E	500Kbps	$\pm 35\text{kV}$ / $\pm 8\text{kV}$ / $\pm 18\text{kV}$	32	NA	-7V to +12V	Integrated Receiver Deglitch Filter
ADM3064E	500Kbps	$\pm 30\text{kV}$ / $\pm 12\text{kV}$ / $\pm 12\text{kV}$	128	NA	-7V to +12V	- Small 3mm x 3mm Package - Low Logic Supply
ADM3063E	500Kbps	$\pm 30\text{kV}$ / $\pm 12\text{kV}$ / $\pm 12\text{kV}$	128	NA	-7V to +12V	- Small 3mm x 3mm Package - Low Logic Supply

RS-485 Full-Duplex, +5V, $\leq 2.5\text{Mbps}$

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX490E	2.5Mbps	$\pm 15\text{kV}$ / NA / NA	32	NA	-7V to +12V	
ADM4856	2.5Mbps	NA / NA / NA	256	NA	-7V to +12V	
LTC490	2.5Mbps	$\pm 2\text{kV}$ / NA / NA	32	NA	-7V to +12V	
MAX490	2.5Mbps	NA / NA / NA	32	NA	-7V to +12V	

RS-485 Full-Duplex, +5V, ≤ 20Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2863-1	20Mbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds
LTC2864-1	20Mbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds
LTC2865	20Mbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	- Symmetric Receiver Input Thresholds - Low Logic Supply
MAX33048E	20Mbps	±40kV / ±10kV / ±15kV	256	+/-25V	-7V to +12V	Hot Swap Protection
ADM1491E	16Mbps	±8kV / NA / NA	32	NA	-7V to +12V	3mm x 5mm Package
MAX13433E	16Mbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current 3mm x 3mm Package
LTC2857-1	20Mbps	±15kV / NA / NA	256	NA	-7V to +12V	
LTC2858-1	20Mbps	±15kV / NA / NA	256	NA	-7V to +12V	

RS-485 Full-Duplex, +5V, ≤ 52Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX22507E	50Mbps	±15kV / ±6kV / ±7kV	200	NA	-15V to +15V	• Symmetric Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin
MAX22508E	50Mbps	±15kV / ±6kV / ±7kV	200	NA	-15V to +15V	• Symmetric Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin
ADM3067E	50Mbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	• Small 3mm x 3mm Package • Low Logic Supply
MAX3467	30Mbps	±6kV / NA / NA	128	NA	-7V to +12V	• Profibus Compliant

RS-485 Full-Duplex, +3.3V to +5V, ≤ 1Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2863-2	250Kbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds
LTC2864-2	250Kbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds
MAX13432E	500Kbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current
ADM3064E	500Kbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	- Small 3mm x 3mm Package - Low Logic Supply
ADM3063E	500Kbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	- Small 3mm x 3mm Package - Low Logic Supply
MAX14784E	500Kbps	±35kV / ±8kV / ±18kV	32	NA	-7V to +12V	Integrated Receiver Deglitch Filter
MAX14787E	500Kbps	±35kV / ±8kV / ±18kV	32	NA	-7V to +12V	Integrated Receiver Deglitch Filter

RS-485 Full-Duplex, +3.3V to +5V, ≤ 20Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2863-1	20Mbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds
LTC2864-1	20Mbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	Symmetric Receiver Input Thresholds
LTC2865	20Mbps	±15kV / NA / NA	256	+/-60V	-25V to +25V	- Symmetric Receiver Input Thresholds - Low Logic Supply
MAX33048E	20Mbps	±40kV / ±10kV / ±15kV	256	+/-25V	-7V to +12V	Hot Swap Protection
MAX13433E	16Mbps	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	- Low Logic Supply - Ultra Low Supply Current 3mm x 3mm Package

RS-485 Full-Duplex, +3.3V to +5V, ≤ 52Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
ADM3068E	50Mbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	• Small 3mm x 3mm Package • Low Logic Supply
ADM3067E	50Mbps	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	• Small 3mm x 3mm Package • Low Logic Supply
MAX22507E	50Mbps	±15kV / ±6kV / ±7kV	200	NA	-15V to +15V	• Symmetric Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin
MAX22508E	50Mbps	±15kV / ±6kV / ±7kV	200	NA	-15V to +15V	• Symmetric Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin
MAX14789E	25Mbps	±35kV / ±8kV / ±18kV	32	NA	-7V to +12V	• Integrated Receiver Deglitch Filter
MAX14786E	25Mbps	±35kV / ±8kV / ±18kV	32	NA	-7V to +12V	• Integrated Receiver Deglitch Filter

RS-485 Full-Duplex, +3.3V to +5V, 100Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX22503E	100Mbps	±15kV / ±6kV / ±7kV	NA	NA	-15V to +15V	• Symmetric Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin
MAX22502E	100Mbps	±15kV / ±6kV / ±7kV	NA	NA	-15V to +15V	• Pre-Emphasis for Driving Long Cables at High Data Rates • Low Logic Supply • Symmetric Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin • Small 3mm x 3mm Package

RS-485 Half/Full-Duplex, +3.3V

Back to the
Previous
Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX3079E	16Mbps	±15kV / ±6kV / NA	256	NA	-7V to +12V	• Receiver Input Phase Reversal • Selectable Half/Full-Duplex

RS-485 Half/Full-Duplex, +5V, $\leq 1\text{Mbps}$

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX1485	250Kbps	NA / NA / NA	256	NA	-7V to +12V	• Small 3mm x 5mm Package
MAX13181E	250Kbps	$\pm 15\text{kV}$ / $\pm 6\text{kV}$ / $\pm 12\text{kV}$	256	NA	-7V to +12V	• Small 2mm x 2mm Package

RS-485 Half/Full-Duplex, +5V, ≤ 20Mbps

Back to the Data
Rate Selection

Part Number	Data Rate	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX13089E	16Mbps	±15kV / ±6kV / NA	256	NA	-7V to +12V	• Pin-Selectable Slew Rate Control • Driver and Receiver Phase Polarity Reversal
MAX3089	10Mbps	NA	256	NA	-7V to +12V	• Pin-Selectable Slew Rate Control
MAX1486	12Mbps	NA	256	NA	-7V to +12V	• 3mm x 5mm Package
MAX13183E	16Mbps	±15kV / ±6kV / ±12kV	256	NA	-7V to +12V	• Small 2mm x 2mm Package

Select by Feature Slides

Highlight Part Categories (Reference Slide only)

- ▶ Low Power
- ▶ Auto-Direction
- ▶ Integrated Termination
- ▶ Fault Protection
- ▶ High CMR
- ▶ Small Footprint
- ▶ High ESD, EFT, Surge Protection
- ▶ High Speed (>50Mbps)
- ▶ Profibus
- ▶ Low Logic

RS-485/RS422 Low Power

Back to Select
by Feature Page

Part Number	Supply Voltage	No Load Supply Current (typ)	Data Rate	Duplex	ESD	Fail Safe	Fault Protection	Special Features
MAX3471	+2.5V to +5.5V	1.6µA	64kbps	Half	-	Open, Shorted, Terminated (drivers disabled)	-	• Available in 3mmx5mm uMAX package
ADM483E	+5V	36µA	250kbps	Half	±15kV HBM	Open, Shorted, Terminated (drivers disabled)	-	
LTC1483	+5V	80µA	250kbps	Half	±10kV HBM	Open	-	
MAX487E	+5V	120µA	250kbps		±15kV HBM	Open, Shorted, Terminated (drivers disabled)	-	
ADM488A/89A	+5V	30µA	250kbps	Full	±4kV HBM	Open	-	
MAX3080E-89E	+5V	375µA	115kbps to 10Mbps	Half/Full or Selectable	±15kV HBM	Open, Shorted, Terminated (drivers disabled)	-	• Selectable Half or Full-Duplex (MAX3089E)

RS-485/RS422 with Auto-Direction

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX13487E	+5V	500Kbps	Half	±15kV / NA / ±15kV	128	NA	-7V to +12V	
MAX13488E	+5V	16Mbps	Half	±15kV / NA / ±15kV	128	NA	-7V to +12V	
MAX13412E	+6V to +28V	500Kbps	Half	±15kV / NA / NA	256	NA	-7V to 12V	• AutoDirection • +5V LDO Output
MAX13413E	+6V to +28V	16Mbps	Half	15kV / NA	256	NA	-7V to +12V	• AutoDirection • +5V LDO Output

RS-485/RS422 Integrated Switchable Termination

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX13450E	+5V	20Mbps	Full	±30kV / ±7kV / ±15kV	256	NA	-7V to +12V	• Low Logic Supply
MAX13451E	+5V	20Mbps	Half	30kV / 7kV	256	NA	-7V to +12V	• Low Logic Supply • Polarity Reversal • Fault Reporting • Pin Selectable Slew Rate
LTC2854	+3.3V	20Mbps	Half	±25kV / NA / NA	256	NA	-7V to +12V	• Low Operating and Shutdown Current • Small 3mm x 3mm Package
LTC2855	+3.3V	20Mbps	Full	±15kV / NA / NA	256	NA	-7V to +12V	• Low Operating and Shutdown Current • Small 4mm x 3mm Package
LTC2859	+5V	20Mbps	Half	±15kV / NA / NA	256	N/A	-7V to +12V	• Small 3mm x 3mm Package • Pin Selectable Slew Rate
LTC2861	+5V	20Mbps	Full	±15kV / NA / NA	256	NA	-7V to +12V	• Small 4mm x 3mm Package • Pin Selectable Slew Rate

RS-485/RS422 Fault Protection Page

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX3430	+3.3V	250Kbps	Half	±12kV / NA	128	+/-80V	-7V to +12V	• Hot Swap Protection
MAX13442E	+5V	250Kbps	Half	±15kV / NA / NA	128	+/-80V	-7V to +12V	• Hot Swap Protection
MAX33070E	+3.3V	500Kbps	Half	±40kV / ±10kV / ±15kV	256	+/-65V	±40V	• Hot-Swap Protection
MAX33076E	+3.3V	20Mbps	Quad RX	±25kV / ±4kV / ±4kV	128	+/-65V	±25V	
MAX14775E	+3.3V to +5V	20Mbps	Half	±8kV / ±5kV / NA	100	+/-65V	±25V	• Large Receiver Input Hysteresis for Improved Noise Margin • Hot-Swap Protection • Small 3mm x 3mm Package
LTC2862A-2	+3.3V to +5V	250Kbps	Half	±40kV / ±8kV / NA	256	+/-60V	-25V to +25V	• ±4kV EFT IEC61000-4-4 • Symmetric Receiver Thresholds
LT1785	+5V	250Kbps	Half	±15kV / ±4kV / NA	128	+/-60V	-7V to +12V	• AEC-Q100 Qualified
LTC2862-1	+3.3V to +5V	20Mbps	Half	±15kV / NA / NA	256	+/-60V	±25V	• Symmetric Receiver Input Thresholds
LT1791	+5V	250Kbps	Full	±15kV / ±4kV / NA	128	+/-60V	-7V to +12V	• AEC-Q100 Qualified

RS-485/RS422 High CMR

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2862A-2	+3.3V to +5V	250Kbps	Half	±40kV / ±8kV / NA	256	+/-60V	-25V to +25V	• ±4kV EFT IEC61000-4-4
LTC2862-1	+3.3V to +5V	20Mbps	Half	±15kV / NA / NA	256	+/-60V	-25V to +25V	• Symmetric Receiver Input Thresholds
MAX33072E	+3.3V to +5V	500Kbps	Half	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection • Polarity Reversal
MAX33076E	+3.3V	20Mbps	Quad RX	±25kV / ±4kV / ±4kV	128	+/-65V	-25V to +25V	
MAX14775E	+3.3V to 5V	20Mbps	Half	±8kV / ±5kV / NA	100	+/-65V	-25V to +25V	• Large Receiver Input Hysteresis for Improved Noise Margin • Hot-Swap Protection
ADM3095E	+3.3V to 5V	2Mbps	Half	±30kV / ±8kV / ±15kV	256	+/-42V	-25V to +25V	• ±4kV IEC 61000-4-5 Surge • ±2kV IEC61000-4-4 EFT • 10V/m rms IEC61000-4-6 Conducted RF Immunity
LTC2863-1	+3.3V to 5V	20Mbps	Half	±15kV / NA / NA	256	+/-60V	-25V to +25V	• Symmetric Receiver Input Thresholds
MAX33070E	+3.3V to 5V	500Kbps	Half	±40kV / ±10kV / ±15kV	256	+/-65V	-40V to +40V	• Hot-Swap Protection

RS-485/RS422 Small Footprint

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate (Mbps)	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Package	Added Features
MAX22502E	+3.3V to +5V	100	Full	±15kV / ±6kV / ±7kV	NA	NA	-15V to +15V	12-LFCSP (3X3mm)	- Pre-Emphasis ±4kV IEC 61000-4-4 EFT Protection ±2kV IEC 61000-4-5 Surge Protection
MAX22500E	+3.3V to +5V	100	Half	±15kV / ±6kV / ±7kV	NA	NA	-15V to +15V	10-LFCSP (3X3mm)	- Pre-Emphasis ±4kV IEC 61000-4-4 EFT Protection
MAX13430E-33E	+3.3V to +5V	0.5 to 16	Half or Full	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	10-LFCSP (3X3mm)	Low Logic Supply
MAX13181E-84	+5V	0.25 to 16	Half or Full or Half/Full Selectable	15kV / 6kV	256	NA	-7V to +12V	10-LFCSP-(2X2mm)	
MAX3362	+3.3V	20	Half	NA	256	NA	-7V to +12V	8 lead SOT23 (3X3mm)	Low TX and RX Skew (6ns max)
LTC2856-58	+5V	0.25 to 20	Half or Full	±15kV / NA / NA	256	NA	-7V to +12V	8- DFN or MSOP (3X3mm) 10-DFN or MSOP (3x3mm)	
LTC2854-55	+3.3V	20	Half or Full	±25kV / NA / NA	256	NA	-7V to +12V	8- DFN or MSOP (3X3mm)	Switchable Integrated Termination Resistor
MAX14840-41E	+3.3V	40	Half	±35kV / ±12kV / ±20kV	32	NA	-7V to +12V	8-LFCSP (3X3mm)	
ADM3061/66E	+3.3V to +5V	0.5 to 50	Half	15kV / 12kV	128	3.3V and 5V	-7V to +12V	10-LFCSP (3X3mm)	Low Logic Supply (ADM3066E)

RS-485/RS422 Robust ESD, EFT, Surge

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
MAX22500E-01E	+3.3V to +5V	100Mbps	Half	±15kV / ±6kV / ±7kV		NA	±15V	• Pre-Emphasis for Driving Long Cables at High Data Rates • Low Logic Supply (MAX22500E) • Symmetric Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • Large Receiver Input Hysteresis for Improved Noise Margin • Small 3mm x 3mm Package
MAX22502E and MAX22503E	+3.3V to +5V	100Mbps	Full	±15kV / ±6kV / ±7kV	Point-to-point	NA	±15V	• Pre-Emphasis for Driving Long Cables at High Data Rates • Low Logic Supply (MAX22502E) • Symmetric Receiver Thresholds with Fail-Safe • Large Receiver Input Hysteresis for Improved Noise Margin • Small 3mm x 3mm Package
MAX22506E and MAX22507-08E	+3.3V to +5V	50Mbps	Half or Full	±15kV / ±6kV / ±7kV	71	NA	±15V	• Symmetric Receiver Thresholds with Fail-Safe • ±4kV IEC 61000-4-4 EFT Protection • ±2kV IEC 61000-4-5 Surge Protection • Large Receiver Input Hysteresis for Improved Noise Margin • Small 3mm x 3mm Package
ADM3095E	+3.3V to +5V	2Mbps	Half	±30kV / ±8kV / ±15kV	256	+/-42V	±25V	• ±4kV IEC 61000-4-5 Surge • ±2kV IEC61000-4-4 EFT • 10V/m rms IEC61000-4-6 Conducted RF Immunity • Low Logic Supply
LTC2876-77	+3.3V to +5V	20Mbps	Half	±52kV / ±4kV / ±4kV	256	+/-60V	±25V	• ±2kV IEC61000-4-4 EFT • Low Logic Supply (LTC2877)

RS-485/RS422 High Speed (>50Mbps)

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
ADM3065E	+3.3V to +5V	50Mbps	Half	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	Small 3mm x 3mm Package
LTC1688/89	+3.3V or +5V	100Mbps	Quad TX	±6kV / NA / NA	NA	NA	-7V to +12V	100Mbps at +5V, 50Mbps at +3.3V
MAX22500E and MAX22201E	+3.3V to +5V	100Mbps	Half	±15kV / ±6kV / ±7kV		NA	±15V	- Pre-Emphasis for Driving Long Cables at High Data Rates - Low Logic Supply (MAX22500E) - Symmetric Receiver Thresholds with Fail-Safe ±4kV IEC 61000-4-4 EFT Protection - Large Receiver Input Hysteresis for Improved Noise Margin - Small 3mm x 3mm Package
MAX22502E and MAX22503E	+3.3V to +5V	100Mbps	Full	±15kV / ±6kV / ±7kV	Point-to-point	NA	±15V	- Pre-Emphasis for Driving Long Cables at High Data Rates - Low Logic Supply (MAX22502E) - Symmetric Receiver Thresholds with Fail-Safe - Large Receiver Input Hysteresis for Improved Noise Margin - Small 3mm x 3mm Package
LTC1685 and LTC1686	+5V	52Mbps	Half or Full	NA / NA / NA	32	NA	-7V to +12V	
LTC1518-19	+5V	52Mbps	Quad RX	NA / NA / NA	NA	NA	-7V to +12V	
MAX3280E	+3.3V to +5V	52Mbps	1 RX	±15kV / ±6kV / ±12kV	128	N/A	-7V to +12	- Single Receiver - AEC-Q100 Qualified (MAX3280EAUK/V+ only) - Small 6-pin SOT 23 Package

RS-485/RS422 ProfiBus

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
ADM1486	+5V	30Mbps	Half	NA	256	NA	-7V to +12V	3mm x 5mm Package
ADM3061E	+3.3V to +5V	0.5 to 50	Half	15kV /12kV	128	3.3V and 5V	-7V to +12V	10-LFCSP (3X3mm)
ADM3065E	+3.3V to +5V	50Mbps	Half	±30kV / ±12kV / ±12kV	128	NA	-7V to +12V	Small 3mm x 3mm Package
MAX14770E	+5V	20Mbps	Half	±35kV / ±12kV / ±15kV	128	NA	-7V to +12V	Small 3mm x 3mm Package
LTC2876-77	+3.3V to +5V	20Mbps	Half	±52kV / ±4kV / ±4kV	256	+/-60V	±25V	±2kV IEC61000-4-4 EFT - Low Logic Supply (LTC2877)
ADM3095E	+3.3V to +5V	2Mbps	Half	±30kV / ±8kV / ±15kV	256	+/-42V	±25V	±4kV IEC 61000-4-5 Surge ±2kV IEC61000-4-4 EFT 10V/m rms IEC61000-4-6 Conducted RF Immunity - Low Logic Supply

RS-485/RS422 Low Logic

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
LTC2865	+3.3V to +5V	20Mbps	Full	±15kV / NA / NA	256	+/-60V	-25V to +25V	- Symmetric Receiver Input Thresholds - Small 3mm x 4mm Package
MAX13430E-33E	+3.3V to +5V	0.5kbps to 16Mbps	Half or Full	±30kV / ±10kV / ±15kV	256	NA	-7V to +12V	Small 3mm x 3mm Package
ADM3066E	+3.3V to +5V	50Mbps	Half	15kV / 12kV	128	NA	-7V to +12V	- Hot Swap Protection - Small 3mm x 3mm Package Options
MAX22502E	+3.3V to +5V	100Mbps	Full	±15kV / ±6kV / ±7kV	Point-to-point	NA	±15V	- Pre-Emphasis for Driving Long Cables at High Data Rates - Symmetric Receiver Thresholds with Fail-Safe - Large Receiver Input Hysteresis for Improved Noise Margin - Small 3mm x 3mm Package
MAX22500E	+3.3V to +5V	100Mbps	Half	±15kV / ±6kV / ±7kV	Point-to-point	NA	±15V	- Pre-Emphasis for Driving Long Cables at High Data Rates - Symmetric Receiver Thresholds with Fail-Safe ±4kV IEC 61000-4-4 EFT Protection - Large Receiver Input Hysteresis for Improved Noise Margin - Small 3mm x 3mm Package
ADM3095E	+3.3V to +5V	2Mbps	Half	±30kV / ±8kV / ±15kV	256	+/-42V	±25V	±4kV IEC 61000-4-5 Surge ±2kV IEC61000-4-4 EFT 10V/m rms IEC61000-4-6 Conducted RF Immunity
LTC2877	+3.3V to +5V	20Mbps	Half	±52kV / ±4kV / ±4kV	256	+/-60V	±25V	±2kV IEC61000-4-4 EFT

RS-485/RS422 Automotive Qualified AEC-Q100

Back to Select
by Feature Page

Part Number	Supply Voltage	Data Rate	Duplex	ESD (HBM/ IEC Contact / Air-Gap)	Number of Nodes	Fault Protection	CMR	Added Features
ADM1486	+5V	30Mbps	Half	NA	256	NA	-7V to +12V	3mm x 5mm Package
MAX3280E	+3.3V to +5V	52Mbps	1 RX	±15kV / ±6kV / ±12kV	128	N/A	-7V to +12	- Single Receiver - Small 6-pin SOT 23 Package
MAX3293	+3.3V	0.25Mbps		±15kV HBM	N/A	N/A	±25V	- AEC-Q100 Qualified (MAX3295AUT/V+) - Space saving 6 pin SOT23 Package
LT1785	+5V	250Kbps	Half	±15kV / ±4kV / NA	128	+/-60V	-7V to +12V	AEC-Q100 Qualified
LT1791	+5V	250Kbps	Full	±15kV / ±4kV / NA	128	+/-60V	-7V to +12V	AEC-Q100 Qualified