

ADM2867EBRNZ

Data Sheet

RFO

5.7 kV RMS Signal and Power Isolated RS-485 Transceiver with ±15 kV IEC ESD

Manufacturers <u>Analog Devices, Inc</u>

Package/Case 28-Lead SOIC (Wide, Finer Pitch)

Product Type Interface ICs

RoHS

Lifecycle

Please submit RFQ for ADM2867EBRNZ or Email to us: sales@ovaga.com We will contact you in 12 hours.



Images are for reference only

Annlication

General Description

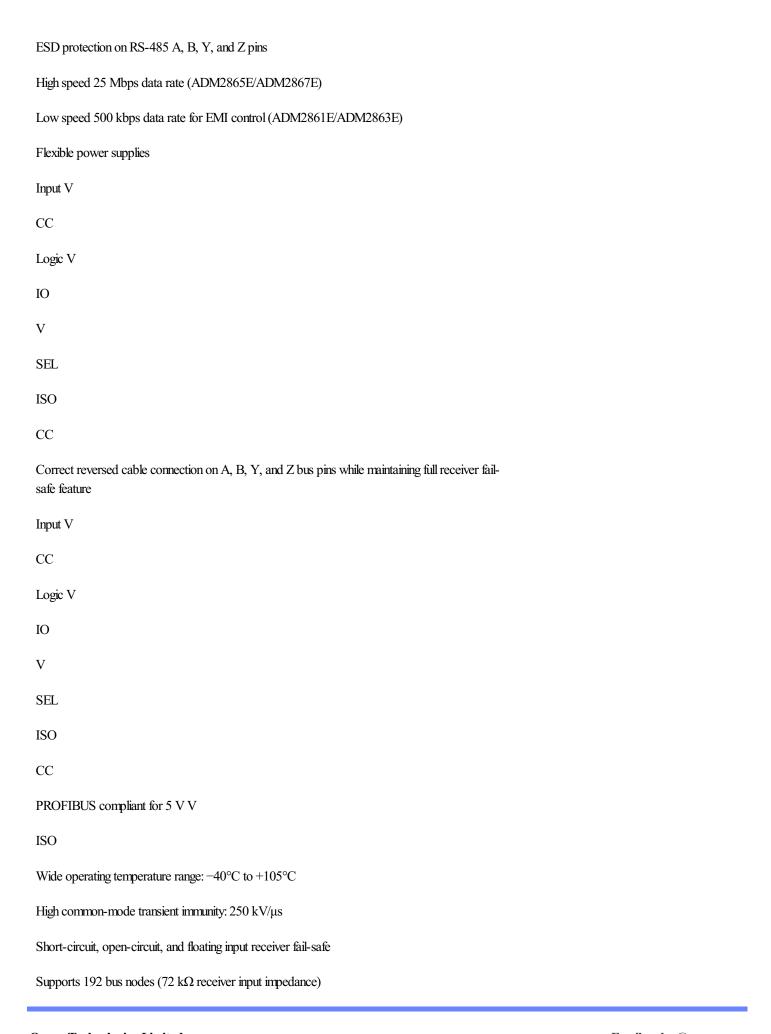
The ADM2861E, ADM2863E, ADM2865E, and ADM2867E are $5.7 \, \text{kV}$ rms signal and power isolated RS-485 transceivers. These devices are designed for balanced transmission lines and comply with ANSI/TIA/EIA-485-A-98 and ISO 8482:1987(E). The devices pass radiated emissions testing to the EN $55032 \, \text{Class} \, \text{B}$ standard with margin on a 2-layer printed circuit board (PCB) using two small external 0402 ferrites on isolated power and ground pins. The device features an integrated, low electromagnetic interference (EMI), isolated dc-to-dc converter, which eliminates the need for an external isolated power supply. The isolation barrier provides immunity to system level electromagnetic compatibility (EMC) standards. The family of isolator devices features $\pm 12 \, \text{kV}$ contact and $\pm 15 \, \text{kV}$ air IEC61000-4-2 ESD protection on the RS-485 A, B, Y, and Z pins. The devices also features cable invert pins, allowing the user to quickly correct reversed cable connection on the A, B, Y, and Z bus pins while maintaining full receiver fail-safe performance.

Slew rate limited versions are available, which are optimized for low speed over long cable runs, and have a maximum data rate of 500 kbps. Half duplex and full duplex variants are available. The full duplex generics allow independent cable inversion of the driver and receiver for additional flexibility.

Applications

Features

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5.7 kV rms isolated RS-485/RS-422 transceiver	Heating, ventilation, and air conditioning
Low radiated emissions, integrated, isolated dc-to-dc converter	(HVAC) networks
D ENISSON CL D VI V AL DOD	Industrial field buses
Passes EN 55032 Class B with margin on a 2-layer PCB	Building automation
Cable invert smart feature	S
Correct reversed cable connection on A, B, Y, and Z bus pins while maintaining full receiver fail-	Utility networks
safe feature	Energy meters



Full hot swap support (glitch free power-up/power-down)

Safety and regulatory approvals (pending)

CSA Component Acceptance Notice 5A, DIN V VDE V 0884-11, UL 1577, CQC11-471543-2012, IEC 61010-1

Complies with ANSI/TIA/EIA-485-A-98 and ISO 8482:1987(E)

28-lead, fine pitch SOIC_W package (10.15 mm \times 10.05 mm) with >8.0 mm creepage and clearance

Related Products



ADV7181CBSTZ

Analog Devices, Inc
LQFP-64



AD724JR
Analog Devices, Inc
SOIC-16



ADV7391WBCPZ
Analog Devices, Inc
LFSCP-3



ADV7341BSTZ

Analog Devices, Inc
LQFP-64



AD8170AR
Analog Devices, Inc
SOP8



ADV7393BCPZ
Analog Devices, Inc
LFCSP-VQ-40



ADV7390BCPZ
Analog Devices, Inc
QFN32



ADUM4160BRIZ
Analog Devices, Inc
SOIC-16