



## E485

### Desktop Installation

### RS-485 Serial Port to E1 Converter

- Support 1 RS-485/422 serial port and 1 E1 port
- Support signal indication of E1 port data, E1 port loss of synchronism and upstream alarm
- Support optional clock: internal clock, external clock, recovery receiving clock
- Support E1 port loopback
- Two optional power supplies: 220VAC or -48VDC
- Support -25 ~ 70°C wide operating temperature range



## Introduction

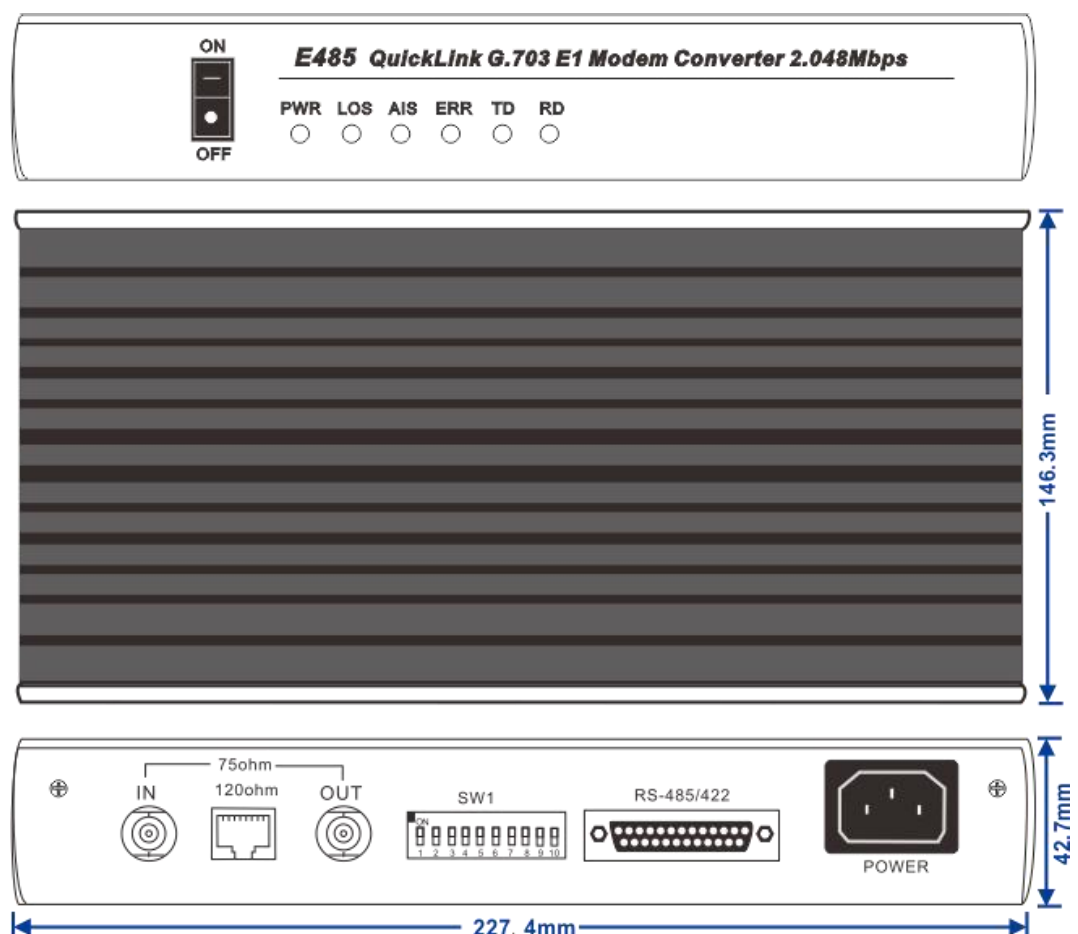
E485 is a RS-485/422 to E1 converter which could implement bidirectional conversion between RS-485/422 serial port and E1 digital port. It adopts desktop mounting to meet the requirements of different scenes.

The data port of this device is operating at a rate of unframed 2.048Mbps of E1. User data has accounted for all 32 timeslots of E1 frame. The main E1 link could provide 3 types of clock source: E1 port recovery clock, internal clock and external clock of digital port. E232 provides loopback and phase adjustment function, which is convenient for digital port testing.

DIP switch could implement functions like impedance setting, BNC grounding setting, clock setting, loopback setting, restoring to factory setting, etc. Hardware adopts fanless, low power consumption, wide temperature range design, and can be widely used in various departments and systems such as industrial control, environment monitoring, network monitoring, etc.

## Dimension

Unit: mm



## Specification

E1 Port	Interface Protocol Standard: conform to the recommendation of ITU-TG.703 Output Jitter Transfer: conform to the recommendation of ITU-TG.735 Input Jitter Tolerance: conform to the recommendation of ITU-TG.823 Output Jitter: conform to the recommendation of ITU-TG.823 Line Rate: bidirectional 2.048Mbps synchronized data Transmission Distance: 2km Clock Recovery Accuracy: $\pm 50$ ppm Interface Code Pattern: HDB3 Frame Format: un-framing CRC Check: No Clock Frequency: 2.048MHz Interface Connection: BNC, RJ45 Interface Impedance: $75\Omega$ imbalance(BNC) and $120\Omega$ balance (RJ45,) Interface Protection: 1500V Electromagnetic isolation
RS-485/422 Port	Standard: EIA RS-485, RS-422 RS-485 Pin Definition: GND, 485+, 485- RS-422 Pin Definition: GND, RD-, TD-, RD+, TD+ Interface Rate: 0 ~ 115200bps Line Code: NRZ Interface Type: DB25 Female (equipped with DB25 male to DB9 female cord) Connection Cable: DB25 male to DB9 female cord Interface Protection: 600W surge protection, 15KV electrostatic protection
Indicator	Power indicator, loss-sync alarm indicator, upstream E1 link whole code1 alarm indicator, E1 link inference alarm indicator, data receiving from G.703 network indicator, data sending to G.703 network indicator
Power Supply	220VAC or -48VDC
Power Consumption	2.00W
Environmental Limit	Operating temperature: -25~70℃

Storage temperature: -40~85℃  
Relative humidity: 5% ~ 95% ( no condensation )

Physical Characteristic	Shell: Plastic Dimension (W x H x D): 227.4mm×146.3mm×42.7mm Installation: desktop installation Weight: 260g
Certification	CE, FCC, RoHS
Warranty	3 years

## Typical application



## Ordering Information

Models	RS-485/422	E1	Power Supply
E485	1	1	220VAC or -48VDC



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