A52, A53

Entry-Level RS-232 to RS-422/485 Converters

Features

> ADDC™ (Automatic Data Direction Control) RS-485 data control
> Automatic baudrate detection
> RS-422 hardward flow control: CTS, RTS signals
> LED indicators for power and signal status
> RS-485 multidrop operation, up to 32 nodes
> 25 KV ESD surge protection
> 2 KV isolation protection (A53)
> Built-in 120 Ω termination resistors

Introduction

The A52 and A53 are general RS-232 to RS-422/485 converters designed for users who need to extend RS-232 transmission distance and increase networking capability.

Specifications

Communications

RS-232 Signals: Tx, Rx, DTR, DSR, RTS, CTS, DCD, GND (RJ45)

RS-422/485:
Supports RS-422, 2-wire RS-485 (DIP switch selectable)
Supports 4-wire RS-422, up to 10 nodes, 1.2 km with RTS, CTS
Supports 2-wire RS-485, up to 32 nodes, 1.2 km

RS-485 Data Direction Control: ADDC™

Surge Protection: 25 KV ESD

Isolation: 2 KV (A53), power/signal

Environment

Operating Temperature: 0 to 55°C

Storage Temperature: -20 to 75°C

Humidity: 5 to 95% RH

Power

Input Power Voltage: 9 to 30 VDC, 350 mA

Over Current Protection:
Protection against 2 signals shorted together

Power Consumption:
A52: 170 mA @ 9V
A53: 285 mA @ 9V

Mechanical

Dimensions (W x D x H): 90 x 60 x 21 mm

Case: ABS

Weight: 85 ± 5 g

Regulatory Approvals

CE Class A, FCC Class A

Warranty: 5 years

Ordering Information

A52: RS-232 to RS-485 converter with 25 KV ESD surge protection

A53: RS-232 to RS-485 converter with 25 KV ESD surge protection & 2 KV isolation

A52/110V or A52/230V: A52 with 110V or 230V power adaptor

A53/110V or A53/230V: A53 with 110V or 230V power adaptor

11

Media Converters