

# 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 hardware 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