Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Isolated In-line
Serial Converters
Models 4WSD9OTB, 4WSD25OTB

B+B SMARTWORX

Powered by **ADVANTECH**

www.advantech-bb.com

PRODUCT FEATURES

- Modbus compatible serial conversion
- Removable terminal blocks for RS-422/485
- 2,000V two-way optical isolation
- Automatic Send Data Control - no software drivers necessary

Models 4WSD9OTB and 4WSD25OTB convert RS-232 to RS-422 or RS-485 (2 or 4-wire). 2,000V two-way optical isolation protects devices from power surges, spikes and ground loops in harsh electrical environments.

These in-line converters support distances up to 1,200 m (4000 ft.) and data rates up to 115.2 kbps. Switchable modes support 2-wire RS-485, 4-wire RS-485, and full duplex RS-422. Available with female DB9 or DB25 RS-232 inputs.

Removable terminal blocks for RS-422/485 and external power make wiring easy. Accepts external power from 10-48 VDC from an industrial power source or plug in power supply. The power supply is sold separately.

ACCESSORIES

SMI6-12-V-ST - Power Supply, 12 VDC 6 Watt, 2.5MM Plug, International AC Input, International AC Blades

TBKT4 - 5 position 3.5MM Replacement Terminal Block

9PAMF6 - 6 ft. (1.8 m) DB9 Male to DB9 Female Cable

232AMF5 - 6 ft (1.8m) DB25 Male to DB25 Female Cable

ORDERING INFORMATION

MODEL NUMBER	RS-232 CONNECTOR	RS-485 CONNECTOR
4WSD9OTB	DB9 Female	Removable Terminal Blocks
4WSD25OTB	DB25 Female	Removable Terminal Blocks

SPECIFICATIONS

SERIAL TECHNOLOGY	
Data Rate	115.2 kbps maximum
LED Indicators	TD and RD
RS-232	
Connectors	4WSD9OTB: DB9 female 4WSD25OTB: DB25 female
Signals	TD, RD, GND
RS-422/485	
Connector	4WSD9OTB: Terminal block, removable 4WSD25OTB: Terminal block, removable
RS-485, 2-wire	Data A(-), Data B (+), GND
RS-422/485, 4-wire	TDA(-), TDB(+), RDA (-), RDB(+), GND
POWER	
Input Required	10-48 VDC
Current Draw	28 mA at 12 VDC (typical)
MECHANICAL	
Dimensions, 4WSD9OTB	9.8 x 4.3 x 2.3 cm (3.9 x 1.7 x 0.9 in)
Dimensions, 4WSD25OTB	9.8 x 5.5 x 2.3 cm (3.9 x 2.2 x 0.9 in)
MTBF	179604
MTBF Calculation Method	MIL 217F Parts Count Reliability Prediction
ENVIRONMENTAL	
Operating Temperature	0 to +70 °C (+32 to +158 °F)
Storage Temperature	-40 to +85 °C (-40 to +185 °F)
APPROVALS / CERTIFICATIONS - 4WSD9OTB, 4WSD25OTB	
2004/108/EC	Electromagnetic Compatibility Directive
2011/65/EU	Reduction of Hazardous Substances Directive
EN 55022: +AC	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 61000-1-1	Generic Standards for Residential, Commercial and Light-Industrial Environments
EN61000-4-2	ESD Immunity
EN61000-4-3: +A1 +A2	Radiated Immunity
EN61000-4-4	EFT/Burst immunity
EN61000-4-6	RF Conducted Immunity