

1-Port Serial Device Server



BWS-136

Features

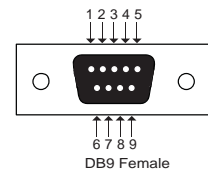
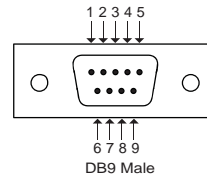
- High Performance Design**
 - ✓ Connects RS-232/422/48 devices to TCP/IP network
 - ✓ Provides 1 serial ports supporting RS-232/422/485
 - ✓ Supports 10/100 Mbps Ethernet
 - ✓ Supports 38,400 bps serial data rate
 - ✓ Supports TCP/Server, TCP/Client, UDP
 - ✓ Provides 8 programmable digital I/O
 - ✓ Supports Web/Telnet/Serial consoles for device configuration
 - ✓ Supports Windows utility for device configuration and management Firmware upgradeable
- Robust Industrial Design**
 - ✓ Robust metal case
 - ✓ Supports operating temperature 0 to 60°C
 - ✓ Wall mount or DIN-Rail installation
- Reliable Power Design**
 - ✓ Wide power Input from 9~40 VDC
 - ✓ External power adapter available different power plug standards



Overview

The Boxer series BWS-136 is a 1-port Serial device server. It is designed to translate data between the serial and Ethernet formats, allowing users to access, manage and configure remote facilities or equipments over the Internet from any location. BWS-136 provides quick, reliable and seamless integration of existing RS-232/422/485 devices to an Ethernet network. The unique hardware and software design of BWS-136 enables you to connect RS232/422/485 serial devices to Ethernet network at a minimal transition cost. It is equipped with versatile operation modes which provides a transparent data channel between serial device and the TCP/IP network, so that the serial device can be accessed through standard TCP/IP protocols. The BWS-136 can function as a TCP server, a TCP client or an UDP node.

Pin Assignments



DB9 M Male	RS-232	RS-422	RS-485
1	DCD	TX-	---
2	RXD	TX+	---
3	TXD	RX+	Data+
4	DTR	RX-	Data-
5	GND	GND	GND
6	DSR	---	---
7	RTS		
8	CTS	---	---
9	RI	---	---

PIN	GPIO
1	PIO0
2	PIO1
3	PIO2
4	PIO3
5	PIO4
6	PIO5
7	PIO6
8	PIO7
9	GND

Hardware Specifications

Network Interface

Speed: 10/100 Mbps
Connector: 8-pin RJ-45

Serial Communication Parameters

Baud Rate: 1,200 to 38,400 bps
Parity: None, Even, Odd
Data Bit: 7, 8
Stop Bit: 1, 2 bits
Flow Control: None, RTS/CTS, XON/OFF

Serial Interface

Serial Port: 1 x RS-232/422/485 serial port
Connector: Male DB9
Serial Port 1: RS-232/422/485, DIP switch selectable

Physical

Housing: Metal
Weight: 350g
Dimensions: 81 mm (W) x 113 mm (H) x 24 mm (D)

Power Requirements

Power Input: 9~40VDC
Power Consumption: 0.84 watts

Programmable I/O

PIO0-PIO5: TTL level compatible
PIO6-PIO7: CMOS level compatible

Environmental

Operating Temp: Regular: 0 to 70°C
Storage Temp: -20 to 80°C (-4 to 176°F)
Operating Humidity: 10% to 80% RH (non-condensing)

Technical Specifications

Protocol Stacks:

TCP, UDP, Telnet, IP, ICMP, ARP

IP Addressing:

DHCP, Static IP

Operation Mode:

TCP/Server, TCP/Client, UDP mode

Configuration Mode:

Telnet Console, Serial console, Windows Utility

Regulatory Approvals

EMI: FCC Class A

EMS:

EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

Safety: CE/EN60950

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

Environmental: WEEE, RoHS

MTBF: 300,000 hrs based on Mil-Hdbk-217F, GB

Warranty: 5 years