4-Port High Speed Serial Device Server

BMS-436

Features

High Performance Design
✓ Connects RS-232/422/485 devices to TCP/IP network
✓ Provides 4 serial ports supporting RS-232/422/485
✓ Supports 10/100 Mbps Ethernet
✓ Supports 230.4 Kbps serial data rate
✓ Supports TCP/Server, TCP/Client, UDP and paired connection mode with heart-beat checking mechanism
✓ Supports Virtual COM driver included for backward compatibility
✓ Supports 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 to 15 VDC
✓ External power adapter available different power plug standards

Overview

The Boxer series BMS-436 is a 4-port high speed 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. BMS-436 provides quick, reliable and seamless integration of existing RS-232/422/485 devices to an Ethernet network. The unique hardware and software design of BMS-436 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 BMS-436 can function as a TCP server, a TCP client or an UDP node and can re-establish the TCP connection every 5 seconds in case a network malfunction occurs, to keep the device stay connected as soon as possible.

Pin Assignments

DB9 Male

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

Hardware Specifications

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

Serial Interface
Serial Port: 4 x RS-232/422/485 serial port
Connector: Male DB9
Serial Port 1: RS-232/422/485, software selectable
Serial Port 2: RS-232/422/485, software selectable
Serial Port 3: RS-232/422/485, software selectable
Serial Port 4: RS-232/422/485, software selectable

Serial Communication Parameters
Baud Rate: 110 bps to 230.4 Kbps
Parity: None, Even, Odd, Mark, Space
Data Bit: 5, 6, 7, 8
Stop Bit: 1, 1.5, 2 bits
Flow Control: None, RTS/CTS, XON/OFF

Physical
Housing: Metal
Weight: 400g
Dimensions: 162 mm (W) x 113 mm (H) x 24 mm (D)

Power Requirements
Power Input: 9~15VDC
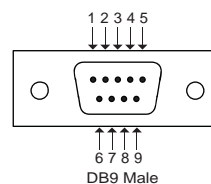**Power Consumption:** 4.8 watts

Environmental
Operating Temp: Regular: 0 to 60°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
IP Addressing:
DHCP, Static IP
Operation Mode:
TCP/Server, TCP/Client ,UDP mode, Paired connection mode
Heart Beat Mechanism: Port: 5300
Virtual COM Mode: Supports Windows XP/2K/98/NT 4.0
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