



**BMS-136**

**Features**

- High Performance Design**
- ✓ Connects RS-232/422/485 devices to TCP/IP network
  - ✓ Provides 1 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**

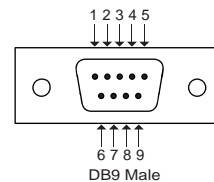
- ✓ Wide power Input from 9 to 15 VDC
- ✓ External power adapter available different power plug standards



**Overview**

The Boxer series BMS-136 is a 1-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-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 BMS-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 BMS-136 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 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:** 1 x RS-232/422/485 serial port  
**Connector:** Male DB9  
**Serial Port 1:** 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:** 350g  
**Dimensions:** 81 mm (W) x 113 mm (H) x 24 mm (D)

**Power Requirements**

**Power Input:** 9 to 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