

## Boxer

### Single Port High Speed Serial to Ethernet Gateway (Device Server)

BMS-136

#### Overview



The BMS-136 is a single-port high performance Serial-to-Ethernet gateway which is designed for applications requiring quick, reliable and seamless integration of existing RS-232/422/485 devices to an Ethernet network.

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 on an Ethernet network to fulfill versatile application requirements. It can re-establish the TCP connection every 5 seconds if network malfunction occurs, to keep the device stay connected as soon as possible.

#### Key Features

- **Industrial Conformance**

Connects RS-232/422/485 devices to TCP/IP network

Supports TCP/Server, TCP/Client, UDP, and paired connection mode with heart-beat checking mechanism

Windows Virtual COM driver included for backward compatibility

10/100Mbps Ethernet; 230.4Kbps serial data rate

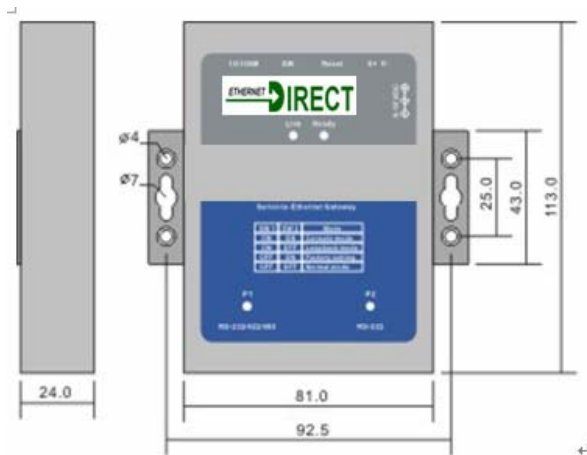
Web/Telnet/Serial consoles for device configuration

Windows utility for device configuration and management

Firmware upgradeable

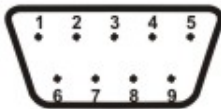
Wall and DIN-rail mountable

## Mechanical Dimension (in mm)

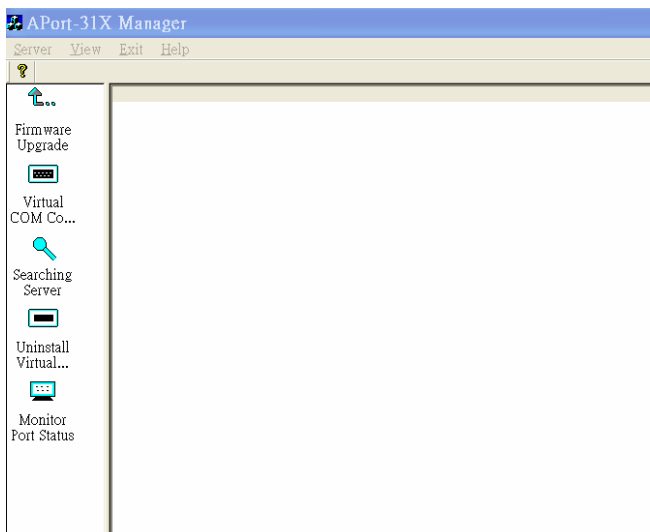


## Pin Assignment

PIN	RS-232	RS-422	RS-485
1	DCD	Rx-	-
2	Rx	Rx+	-
3	Tx	Tx+	Data+
4	DTR	Tx-	Data-
5	GND	GND	GND
6	DSR	CTS-	-
7	RTS	CTS+	-
8	CTS	RTS+	-
9	RI	RTS-	-



## Utility Screen Shot



## Specifications

### Network Interface

<b>Protocol Technology</b>	Type: 10/100BaseT, RJ-45 connector
<b>Protocols</b>	TCP, UDP, HTTP, Telnet, IP, ICMP, ARP
<b>IP addressing</b>	DHCP, Static IP

### Mode

<b>Operation Mode</b>	TCP/Server, TCP/Client and UDP mode
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Special paired connection mode

Heart-beat checking mechanism (port:5300)

Virtual COM mode for Windows XP/2K/98/NT 4.0

### Serial Interface

<b>Type</b>	RS-232/422/485, Dip switch selectable
<b>Connector</b>	DB9, male
<b>Signals</b>	See pin assignment diagram
<b>Baud Rate</b>	110 bps to 230.4 Kbps
<b>Parity</b>	None, Even, Odd, Mark, Space
<b>Data bit</b>	5,6, 7, 8
<b>Stop bit</b>	1, 1.5, 2 bits
<b>Flow Control</b>	None, RTS/CTS, XON/OFF

### Configuration Method

- Web console, Telnet Console and Serial console
- Windows utility

### Software

<b>Protocols</b>	TCP, UDP, HTTP, Telnet, IP, ICMP, ARP
<b>Virtual COM Driver</b>	Windows XP/2000/NT/98

### Power

<b>Power input</b>	9~15VDC
<b>Power consumption</b>	400mA @ +12VDC

### Physical

<b>Dimension</b>	81 x 113 x 24 mm (WxHxD)
<b>Weight</b>	350 g

### Environmental

<b>Operation Temp</b>	0~60C, 5~95% RH
<b>Storage Temp</b>	-20~85C, 5~95% RH

### Regulatory Approval

- CE
- FCC

## Ordering Information

BMS-136 : Single-port High Speed Serial-to-Ethernet Gateway