

# Aport-311

## Single-port High-speed Serial-to-Ethernet Gateway

- ✓ 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



## Introduction

The Aport-311 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.

### ✕ Versatile Operation Modes

The Aport-311 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 Aport-311 can behave as a TCP server, a TCP client or an UDP node on an Ethernet network to fulfill versatile application requirements.

Besides, users can enable Aport-311's heart-beat checking mechanism, which will re-establish the TCP connection every 5 seconds if network malfunction occurs, to keep the device stay connected as soon as possible.

### ✕ Windows Virtual COM driver included

With the Virtual COM driver, the serial port on the Aport-311 can be mapped as local COM port on the remote host computer. Thus, no software modification is needed to benefit from modern TCP/IP networking technology.

## Specifications

### Network Interface

- ▷ Type: 10/100BaseT, RJ-45 connector
- ▷ Protocols: TCP, UDP, HTTP, Telnet, IP, ICMP, ARP
- ▷ IP addressing: DHCP, Static IP

### Operation Modes

- ▷ TCP/Server, TCP/Client, UDP modes
- ▷ Special paired connection mode
- ▷ Heart-beat checking mechanism (port:5300)
- ▷ Virtual COM mode for Windows XP/2K/98/NT 4.0

### Serial Interface

- ▷ Type: RS-232/422/485, software selectable
- ▷ Connector: DB9, male
- ▷ Signals: please refer to the pin assignment diagram
- ▷ Baud: 110bps to 230.4Kbps
- ▷ Parity: None, Even, Odd, Mark, Space
- ▷ Data bits: 5, 6, 7, 8
- ▷ Stop bit: 1, 1.5, 2 bits
- ▷ Flow control: None, RTS/CTS, XON/OFF

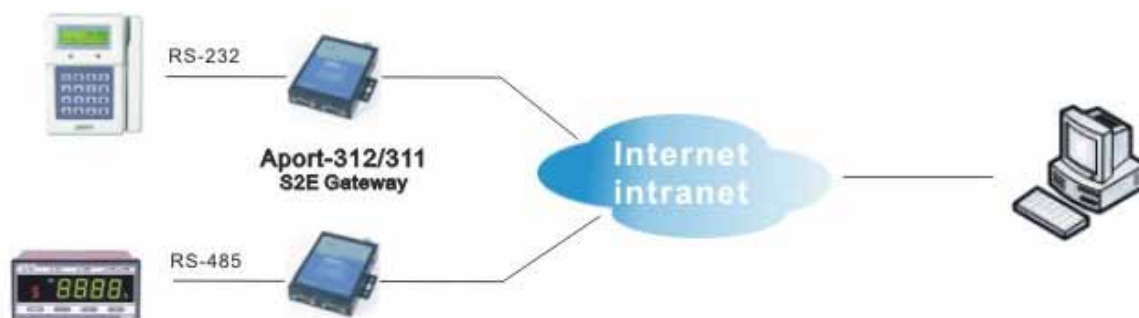
### Configuration Methods

- ▷ Web console, Telnet Console and Serial Console
- ▷ Windows utility (included in CD)

### General

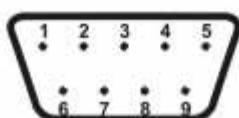
- ▷ Power input: 9~15VDC
- ▷ Power consumption: 400mA@+12VDC
- ▷ Operation temp.: 0~70C, 5~95% RH
- ▷ Storage temp.: -20~85C, 5~95% RH
- ▷ WxHxD: 81x113x24 mm
- ▷ Weight: 350g
- ▷ Regulation: CE/FCC compliant
- ▷ Warranty: 2 years

## Serial Device Networking Architecture



## 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-	—



## Dimensions



## Utility Screenshots



## Ordering Information

### ✕ Aport-311

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