

Introduction

The EM202 is Tibbo's new **100BaseT Ethernet-to-serial Module** in RJ45 form factor. Very compact and highly integrated, the Module features built-in Ethernet magnetics, RJ45 connector, and even four status LEDs! While being a true one-component Ethernet-to-serial solution, the EM202 has a board footprint just slightly bigger than that of a regular RJ45 connector. The EM202 is upward-compatible with Tibbo's original EM100 Ethernet Module.



Features

- Compact, dimensions only **32.3x19x16mm**
- Power consumption: 230mA@5VDC
- One **100BaseT** Ethernet port with built-in **RJ45 connector** and **Ethernet magnetics**
- One serial (TTL) port with full- or half-duplex operation*; baudrates of up to 115200bps; 5 parity modes (none, even, odd, mark, space); 7 or 8 data bits; optional RTS/CTS flow control
- Serial port includes RTS, CTS, DTR, and DSR lines; all lines can be used as remotely controlled I/O
- Four **built-in LEDs** display status information
- Two extended **12KByte** routing buffers
- Onboard EEPROM stores numerous user-definable functioning parameters (Setting)
- Supported network protocols include UDP, TCP, ARP, ICMP (PING) and DHCP
- Module setup can be performed through the serial port or network (over-the-network IP-address configuration is also supported). Network setup can be performed using UDP commands or **"Telnet"** TCP connection
- Specialized "on-the-fly" commands for serial port control, "modem" commands to control network connections, status commands for remote status monitoring, etc.
- Internal firmware is upgradeable through the serial port or network
- Supplied with Device Server Toolkit (DST) for *Windows*, including Virtual Serial Port Driver (VSPD) (COM redirector)
- LINUX version of the VSPD is also available
- Works with TIBBO.NET
- EM202-SK Starter Kit available
- CE- and FCC-approved

* *Full-duplex mode is suitable for RS232 and RS422 comms., half-duplex mode- for RS485 comms. RS232/422/485 transceivers are **not** built in*