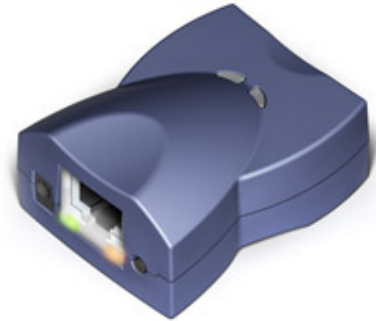


DS1202 BASIC-programmable Controller

Introduction

The DS1202 is a miniature BASIC-programmable controller designed primarily for serial-over-IP and serial control applications. It comes preloaded with a fully functional serial-over-IP [application](#).

The unique feature of the DS1202 is its multi-channel serial port. The device has a single DB9M connector and is priced as a single-port device, yet packs four independent serial channels. Have no use for those DSR and DTR lines? Turn them into RX and TX of an additional serial channel. Don't want CTS and RTS either? That's one more channel! In total, there are 15 different configurations to choose from.



Hardware Specifications

- Superior upgrade to the [DS203](#) device.
- Based on the [EM1202](#) BASIC-programmable embedded module.
- 10/100BaseT, auto-MDIX Ethernet port.
- Up to 3.5 serial channels on a single RS232 connector:
 - Baudrates of up to 921,600bps;
 - None/even/odd/mark/space parity modes;
 - 7/8 bits/character modes;
 - Optional flow control;
 - Flexible mapping with 15 different options, such as:
 - A single channel: RX, TX, CTS, RTS, DSR, and DTR lines;
 - 3.5 channels: RX, TX, RX2, TX2, RX3, TX3, and RX4 lines.
- 1024KB flash memory for firmware, application, and data.
- 2KB EEPROM for data storage.
- Six LEDs:
 - Green and red status LEDs on top of the device;
 - Green and red status LEDs on the RJ45 jack.
 - Link and speed Ethernet status LEDs on the RJ45 jack.
- Software-controlled onboard PLL.
- Power: 10-24V (12V nominal).
- Dimensions: 60x47x30mm.
- Firmware is upgradeable through the serial port or network.

Programming Platform Objects

- [Sock](#) — socket comms (up to 16 UDP, TCP, and HTTP sessions).
- [Net](#) — controls Ethernet port.
- [Ser](#) — in charge of serial channels.
- [Io](#) — handles I/O lines, ports, and interrupts.
- [Fd](#) — manages flash memory file system and direct sector access.
- [Stor](#) — provides access to the EEPROM.
- [Romfile](#) — facilitates access to resource files (fixed data).
- [Pat](#) — "plays" patterns on green and red status LEDs.
- [Button](#) — monitors the setup button.
- [Sys](#) — in charge of general device functionality.

Function Groups: Strings functions (21 in total!), date/time conversion functions, and hash calculation functions (md5 and sha1).

Variable Types: Byte, char, integer (word), short, dword, long, real, string, plus user-defined arrays and structures.

Optional Accessories:

DMK1000 DIN rail mounting kit

[12V/0.5A adaptor](#): APR-P0011 (US), APR-P0012 (EU), APR-P0013 (UK)

[WAS-1499](#) straight Ethernet cable*

[WAS-P0004\(B\)](#) DB9M-to-DB9F serial cable (device-to-PC)

[WAS-P0005\(B\)](#) DB9F-to-DB9F serial cable (device-to-device)

See Also:

[EM1202EV](#) board

**For this device can be used as crossover cable too*

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