domat
control system

M020 Ethernet – RS232 data converter

Summary

M020 is a RS232 to 10/100 Mbit Ethernet converter, also called „terminal server". With extended functionality as input status change mailer.

Applications

- **remote RS232 device to PC connection via an Ethernet network**
- **5 input signals may be used as digital inputs which report their status change via e-mail**

Functions

The M020 module is able to connect a RS232 device to a PC via an Ethernet network. Part of delivery is *RealPort COM/TTY port redirection* software which creates a virtual COM port on the host PC. This virtual port enables any software to communicate with a remote RS232 device. The COM port redirector runs under Microsoft Windows, UNIX and Linux. Maximum communication speed is 230400 bps.

The module parameters and functions are configured via SNMP or secured web communication (HTTP / HTTPS protocols). Power presence is indicated by a green LED close to the serial connector. The Ethernet connector provides two LEDs: Link and Network activity. The network switches automatically between 10 and 100 Mbit/s.

A CANON 9M device connect through a nullmodem („crossed") serial cable with CANON 9F connector at both sides. A CANON 9F device connect through a modem („straight") serial cable with CANON 9M and CANON 9F connectors. All RS232 signals except for RING (TXD, RXD, RTS, CTS, DTR, DSR, and DCD) are transmitted.

If only RXD and TXD signals are used at the serial port, the other RS232 pins may be configured as digital inputs and M020 may be set so as to send e-mail messages to defined addresses at signal status changes.

Technical data

Supply voltage	10 V ÷ 35 V DC, 14 V ÷ 24 V AC, any polarity
Consumption	1500 mW
Working temperature of the device	-40 ÷ 85°C
Communication	high speed RS232, 1200 ... 230 400 bit/s (TXD, RXD, RTS, CTS, DTR, DSR and DCD)
Ethernet	automatic 10 or 100 Mbit/s
IP addressing	fixed or DHCP assigned IP address
Protocols	TCP, UDP, DHCP, SNMP, SSL / TSL, HTTP, SMTP, ICMP, IGMP, and ASR
Security	based on SSL V3.0 / TSL V1.0 (DES 56 bit, 3DES 168 bit, AES 128 / 256 bit)
Memory	2MB Flash, 8MB RAM
Dimensions	see below

Terminals

Settings

The default network setting is:
IP address   192.168.1.37
network mask   255.255.255.0

All parameters inclusive network configuration are available at a web interface on TCP port 80. Default user is **root**, password is **dbps**. Find the detailed description of all settings in the *digi_manual.pdf*. If the IP address is unknown, use the detection utility *digi_detector.exe*; the program is free to download at http://rcware.eu/public/download/software, Digi Utility.
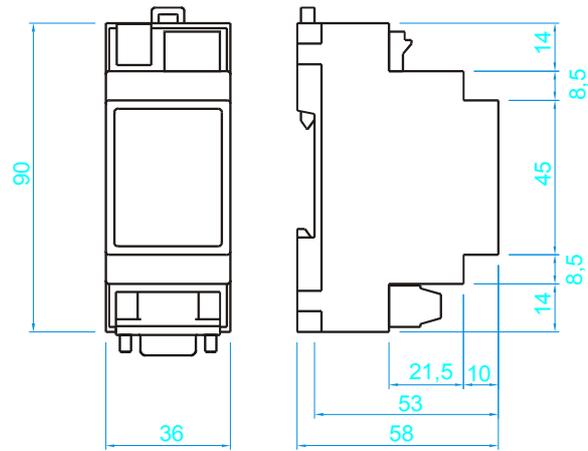
If there are problems with detection, switch off the firewall so that the network card is able to receive the broadcast responses.

Actual drivers are available:
http://www.digi.com/support/productdetail?pid=2466&type=drivers
Please select required Operating System Specific Drivers and download latest drivers.

Dimensions