domat
control system

M040   WiFi – RS232 converter

Summary

M040 is a RS232 to WiFi 802.11b converter, also called „wireless terminal server". With extended functionality as input status change mailer.

Application

- **remote RS232 device to PC connection via wireless network**
- ***bridge* – virtual RS232 channel in a wireless network (two M040 vis-a-vis each other)**
- **modem emulation – converters emulate dial-up connections and follow AT commands at the RS232 port**
- **5 input signals may be used as digital inputs which report their status change via e-mail**

Functions

The M040 module connects a RS232 device to a PC via wireless 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.

Functions and parameters are configured via SNMP or secured web communication (HTTP / HTTPS protocols). Power presence is indicated by a green LED close to the serial connector. Near the R-SMA connector there are another 2 LEDs: link status and network activity. Small antenna (cca. 3 dB) is included.
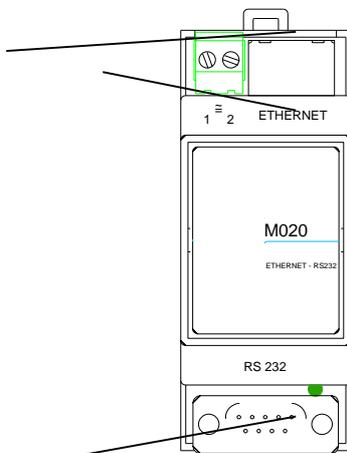
A CANNON 9M device connect through a nullmodem („crossed") serial cable with CANNON 9F connector at both sides. A CANNON 9F device connect through a modem („straight") serial cable with CANNON 9M and CANNON 9F connectors. All RS232 signals except for RING (TXD, RXD, RTS, CTS, DTR, DSR, and DCD) are transmitted.

If only RXD and TXD signals are used at the serial port, the other RS232 pins may be configured as digital inputs and M040 may be set so as to send e-mail messages to defined addresses at signal status changes.

Technical data

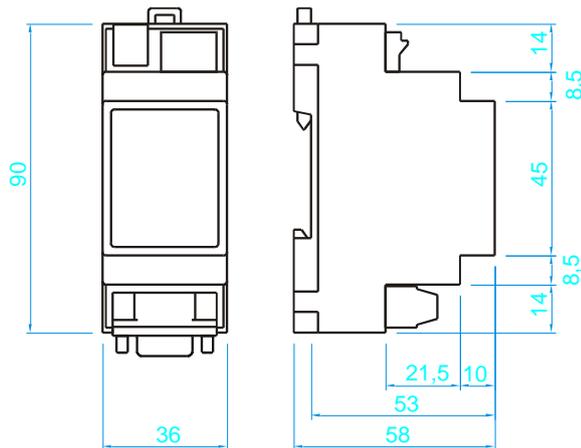|	
Supply voltage	10 V ÷ 35 V DC, 14 V ÷ 24 V AC, any polarity
Consumption	1500 mW
Working temperature of the device	-40 ÷ 85°C
Communication	high speed RS232, 1200 ... 230 400 bit/s
	(TXD, RXD, RTS, CTS, DTR, DSR and DCD)
Ethernet	IEEE 802.11b, 2.4GHz, transmission speed up to 11Mbps
	Modulation: CCK (11/5Mbps), DQPSK (2Mbps), DBPSK (1Mbps)
	Output power: 16dBm
	Input sensitivity: -82dBm at 11Mbps
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

power

R-SMA connector – WiFi

RS232

Dimensions

Note

Use of external antenna must be considered carefully as strict transmitted power limits at 2.4 GHz (WiFi) apply in certain countries.

07/2013 Subject to technical changes.