

# Spectre RT Industrial Routers

ERT31x Series



## PRODUCT FEATURES

- VPN security
- Firewall support
- NAT/PAT address & port translation
- SNMP management
- Wide temperature range -40 to 75°C
- Complies with NEMA TS1 & TS2

The Spectre RT industrial router connects Ethernet equipment in tough environments where office-grade equipment can't handle the job. With Ethernet, USB, I/O and auxiliary ports it's a flexible device with the built-in ability to handle multiple data communications protocols and to fit into virtually any network topology.

The Spectre RT supports the creation of VPN tunnels using IPsec, OpenVPN and L2TP. It supports DHCP, NAT, NAT-T, DynDNS, NTP, VRRP, control by SMS, and numerous other functions, as well as additional software. A password-protected Web interface allows users to configure and manage the Spectre RT from remote locations. The router can automatically upgrade its configuration and firmware from the operator's central server, allowing for simultaneous mass reconfiguration of every router on the network.

Users may insert Linux scripts and they can create up to four different configurations for the same router. Examples would include binary input configurations. Users may switch from one configuration to another at any time.

## ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
ERT310	1 WAN, 1 LAN
ERT312	1 WAN, 1 LAN (RS-232)

## ACCESSORIES

C5UMB7FBG - Category 5e, 7 ft. (2.1 M), Grey

MDR-20-24 - DIN rail mount power supply 24VDC, 1.0 A output power

MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power

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## SPECIFICATIONS

### INTERFACES

#### Standard

Ethernet	10/100 Mb
USB	USB Type A Host
Binary I/O	1 input/1 output

#### Port Options

Port 1	Ethernet 10/100, RS-232, RS-422/485, Modbus, CNT (I/O)
Port 2	RS-232, RS-422/485, Modbus, CNT (I/O)
I/O CNT	4 Binary inputs, 1 Binary output (2 inputs maybe configured as counters) 2 Analog inputs, 1 Binary output

### INTERNAL

32b ARM microprocessor
512 Mb DDR SDRAM
128 Mb Flash
1 Mb MRAM

### POWER

Source	10 – 30 VDC
Consumption	Max. 200 mA (12 VDC)

### MECHANICAL

Dimensions	11.4 x 9.5 x 4.2 cm (4.49 x 3.74 x 1.65 in)
Enclosure	Metal
Weight	150 g

### ENVIRONMENTAL

Operating Temperature	-40 to 75°C
Storage Temperature	-40 to 85°C

### FEATURES

Networking	DHCP – automatic IP addressing in LAN network
	NAT – IP address and ports translation between inside/outside network
	Firewall: filtering of addresses, ports, protocols
	VRRP – virtual backup router function
VPN Tunneling	DynDNS client – access to the router with a dynamic IP address
	VLAN 802.11Q: virtual LAN
	QoS: quality of service
	Dial-in – Communicate via CSD call
Configuration and Diagnostics	NTP client, NTP Server: time synchronization
	PPPoE Bridge – PPP frames encapsulation inside ETH frames
	IPsec, OpenVPN, L2TP – secure encrypted tunnels
	GRE tunnel – simple tunnel without security measures
Additional Functions	HTTP server – configuration via web server
	Telnet – configuration and access to the file system
	SNMP – router diagnostics, communication with I/O and M-BUS
	Remote router group configuration change, switching among configuration profiles
APPROVALS / CERTIFICATIONS	SSH – encrypted configuration and access to the file system
	Linux based: program your own applications
	AT commands on RS232, Ethernet and I/O
	M-RAM memory inside – router statistic saved into memory

## MECHANICAL DIAGRAM

