

Spectre Wired 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 cannot handle the job. With Ethernet, USB, I/O and auxiliary ports, it is 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 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 can insert Linux scripts and create up to four different configurations for the same router. Examples include binary input configurations. Users may switch from one configuration to another at any time.

ORDERING INFORMATION

MODEL NUMBER	10/100 ETHERNET	RS-232	RS-485	WAN	USB	DIGITAL I/O
ERT310	2			•	•	•
ERT311	3			•	•	•
ERT312	2	1		•	•	•
ERT314	2		1	•	•	•

ACCESSORIES

C5UMB7FBG - Category 5e cable, grey, 2.1 m (7 ft.)

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

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

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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	Maximum 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
	DynDNS client – access to the router with a dynamic IP address
	VLAN 802.11Q: virtual LAN
	QoS: quality of service
VPN Tunneling	Dial-in – Communicate via CSD call
	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
Configuration and Diagnostics	HTTP server – configuration via web server
	Telnet – configuration and access to the file system
	SNMP – router diagnostics, communication with I/O and M-BUS
Additional Functions	Remote router group configuration change, switching among configuration profiles
	SSH – encrypted configuration and access to the file system
	Linux based: program your own applications
APPROVALS / CERTIFICATIONS	
CE, FCC, NEMA TS2 EN 301 511, v9.0.2 EN 301 908-1&2, v3.2.1 ETSI EN 301 489-1 V1.8.1 EN 60950-1:06 ed.2 + A11:09 + A1:10 IEC60068-2-27 - Shock, 50G peak, 11ms, 3 axes IEC60068-2-6 - Vibration, 10-500Hz, 4G, 3 axes	

MECHANICAL DIAGRAM

