

# Spectre Wired Industrial Routers

## ERT31x Series

**B+B SMARTWORX**

Powered by

**ADVANTECH**

[www.advantech-bb.com](http://www.advantech-bb.com)



### 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 - sold separately

**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

All product specifications are subject to change without notice.

ERT31x Series\_3317ds

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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
MEANTIME BEFORE FAILURE (MTBF)	
MTBF	580576
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction

### 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
	VRPP – virtual backup router function
	DynDNS client – access to the router with a dynamic IP address
	VLAN 802.11Q: virtual LAN
VPN Tunneling	QoS: quality of service
	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 & 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
	Remote router group configuration change, switching among configuration profiles
Additional Functions	SSH – encrypted configuration and access to the file system
	Linux based: program your own applications
	AT commands on RS232, Ethernet and I/O
<b>APPROVALS / CERTIFICATIONS</b>	
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

