



EBW100-WLAN



With the EBW100-WLAN you can also easily visualize and manage application data via the Cumulocity Cloud and the Telekom "Cloud der Dinge".

Professional routers for secure and easy network connection

The EBW100-WLAN is a high-quality wireless router for remote maintenance and remote access to your applications via local network or Internet.

Reduction to the essentials

The EBW series from INSYS icom is characterized by deliberate reduction to standard routing tasks without sacrificing quality and IT security. EBW devices consist of a router and a 2-port switch. They also have an integrated Linux programming environment for custom applications (INSYSSandbox).

For example, the EBW100 WLAN decouples manufacturing cells remotely from the surrounding corporate IT. Many subnets with identical local IP addresses can also be distinguished and targeted. Data security is ensured by a firewall and integrated VPN (OpenVPN, IPsec).

Safe and easy via VPN

The configuration is simple and intuitive via web interface. The combination of VPN and firewall offers maximum IT security. With the optional DELTA LOGIC Connectivity Service, you can quickly and easily set up your own VPN network. In a few steps you integrate PCs, routers and locally connected network devices.

Extensions for monitoring, alerting and cloud services

With the Monitoring App, the functionality of the devices can be extended by monitoring controllers and other devices as well as sending messages by e-mail or SMS. In addition, application data for centralized management and visualization can be quickly and easily transferred to cloud services like Cumulocity or the Telekom "Cloud der Dinge".

Technical highlights

- Router and switch in one device
- Compact design
- IT security: VPN, stateful firewall
- 2-port switch with 10/100 MBit/s
- Integrated Linux programming environment (INSYS sandbox)
- Monitoring App for monitoring Siemens LOGO!™, S7 and Modbus TCP devices available
- Quick start for VPN service DELTA LOGIC Connectivity Service
- Management and visualisation of application data via Cumulocity Cloud and Telekom "Cloud der Dinge"

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Technical details

Router

Function	IPv4/IPv6 router, connection management, DHCP server and client, Full NAT (IP forwarding, port forwarding, netmapping), DNS relay, dynDNS support, PPPoE for ADSL modem via LAN (ext), dial-in, dial-out, callback
Security	OpenVPN (client and server), IPsec (ESP normal/aggressive mode), GRE, PPTP, stateful firewall and MAC filters, RADIUS authentication, 10 users for dial-in, authentication via PAP/CHAP/MS-CHAP/MS-CHAP 2, dial filter for dial-out, linkloss detection, failed login detection, no backdoor
Redundancy	LAN ext. port for external DSL modem, 2 dial-out targets, 2 OpenVPN servers
Connection stability	Connection monitoring on several levels, hardware watchdog
Frequency, transmitted power	2,4 GHz, max. 100 mW
WiFi mode	WiFi client, WiFi access point with up to 5 clients
Security	WEP, WPA/WPA2 (AES, TKIP). 802.1X (EAP: TLS, TTLS, PEAP)
Antenna connection	Reverse SMA male
Operation	
Configuration	Local and remote web interface (http, https), command line interface (CLI), Telnet, SSH, ASCII and binary file (also for backup), quick start for DELTA LOGIC Connectivity Service Menu languages: German, English, French
Indications (LEDs)	Connection status, data/signal, device status/VPN, power, switch ports
Diagnosis	Comprehensive log files, support package, integrated help functions, Diagnosis tools: ping, tcpdump, traceroute, DNS lookup
Customer-specific programming environment	User access to embedded Linux (sandbox), 150 MB permanent memory, socket access, example programs: e-mail and SMS client, serial logger, etc.
Messages	Hardware watchdog, system messages via e-mail, SNMP traps, SNMP V1/V2c/V3
Additional features	NTP client and server, buffered real-time clock, optional monitoring packages
Updates	Update of firmware and configuration (local and remote), daily auto update via server (http, ftp)



Monitoring app for monitoring Siemens LOGO™, S7 and Modbus TCP devices additionally usable. More information at:

www.deltalogic.de/produkt/e/fernwartung/monitoring-app

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Create VPN connection easily and securely. With the DELTA LOGIC Connectivity Service.

<https://connectivity.deltalogic.de>

Switch

Ports	2x RJ45 10/100 BT for full and half duplex operation
Function	Automatic detection of patch cable/cross-over cable, automatic speed adjustment, port mirroring

Environmental conditions

Power supply	10 ... 48 V DC (±20%)
Power consumption (during connection)	Approx. 2 W (idle condition), max. 3 W (data transmission)
Operating temperature	-30...+60 °C -30...+75 °C under restricted conditions (refer to www.insys-icom.com/restricted)
Humidity	0...95% (non-condensing)
Mounting/protection class	DIN rail mounting/housing: IP40, terminals: IP20
Certifications	CE
Applied standards	Radiation: EN 55022 Class B, EN 61000-6-3 Interference resistance: EN 55024, EN 61000-6-2 Security: EN 60950-1
Applied radio standards	EN 300328, EN 301489-1, EN 301489-3
Standard	IEEE 802.11 b/g/n
Dimensions (W x H x D)	45 x 70 x 110 mm (2,6 HP)

Monitoring App (monitoring function)

Monitoring elements	Timer, internal flags
Logical combination of the elements	AND, OR, NOR, NAND, XOR
Actions	Message dispatch, http call, timer start, upload to Cumulocity cloud, Telekom "Cloud der Dinge": Central and easy visualisation of measurements, events and alarms
Messages	SMS, e-mail: Freely configurable text, also actual values from monitored elements