

WEB APPLICATION GATEWAY

IGW/935

- ✓ USB 2.0 Host Port
- ✓ OpenVPN Client and Server
- ✓ Firewall with NAT Support
- ✓ Optional IEC 61850 Support
- ✓ 12 .. 24 VDC Power Supply
- ✓ DIN-rail Mounting



Web Application Gateway with SSV/WebUI Framework

The high performance Application Gateway IGW/935 was developed to receive and read data from various sources like **TCP, UDP, Telnet** and more. With the contained software framework, **SSV Field Data Engine (FDE)** the IGW/935 also works with additional protocols.

The IGW/935 processes the collected data and sends it via Ethernet LAN to other systems for further usage.

By means of the integrated **SSV/WebUI** framework, data can be passed for diverse purposes to very different end devices like PCs, smartphones or tablets. To show these possibilities the IGW/935 offers an SSV/WebUI demo page, which can be accessed with a web browser.

The SSV/WebUI uses only standard web technologies for the output like **HTTP(S), HTML, CSS, JavaScript and REST-based** web services, thus there is no need to learn any proprietary programming language.

As a result, every professional web developer has the know-how to customize the web-based user interface for his individual requirements within shortest time.

Everything on Board

The IGW/935 is equipped with all necessary software to develop and operate own web-based visualizations: **Web server with SSL** support, **(S)FTP/TFTP** server and programming environments for **Python, PHP and Java**.

Safety & Security

To ensure a high level of safety and security, the IGW/935 contains a **Firewall with NAT support, SSH, OpenVPN** as well as **OpenSSL** (incl. SSL/TLS).

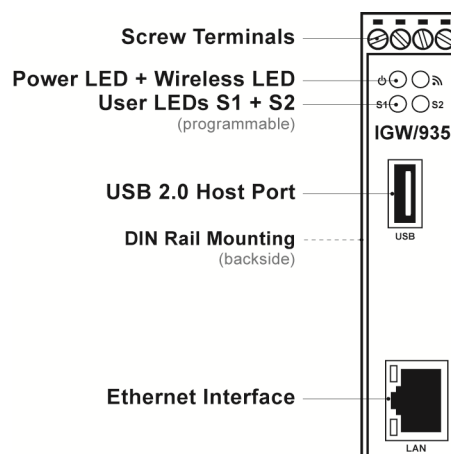
For a fast and simple integration of the IGW/935 into existing network environments, it also offers **AutoIP** and **UPnP**.

All the software features of the IGW/935 can be easily configured over the SSV/WebUI with a standard web browser.

SPECIFICATIONS

Processor	
Manufacturer / Type	Texas Instruments AM3517 32-bit ARM Cortex-A8 SoC
Clock speed	600 MHz
Memory	
RAM	256 MB SDRAM
Flash	1 GB NAND memory, 8 MB NOR memory
Interfaces	
Ethernet	1x 10/100/1000 Mbps with Auto MDI-X (LAN 2, RJ45) 1x 10/100 Mbps (LAN 1, RJ45)
USB	1x USB 2.0 Host
Serial I/Os	1x RS485 serial port (screw terminal)
Special Functions	
RTC	1x Real Time Clock
Watchdog	1x Timer watchdog (hardware-based, software-configurable) 1x Power supervisor (hardware-based)

OVERVIEW



Software	
Operating system	Embedded Linux
Web server	lighttpd with SSL support
Programming environment	C, C++, Unix shell, Python, PHP, Node.js, Java (JVM 1.5 + Classpath 0.98),
IP address assignment	Static, DHCP, AutoIP, UPnP
Protocol stack	ARP, ICMP, IP, TCP, UDP, Telnet, FTP, HTTP, TFTP, Modbus TCP/RTU (server + client), M-Bus, ACCON AGLink
Security protocols	SSL/SSH, HTTPS, OpenVPN, IPsec
TCP servers	Telnet, (S)FTP, TFTP, HTTP
Firewall	netfilter + iptables
Proxy functions	HTTP(S), FTP, Telnet, SSH, generic TCP port mapping
Configuration	SSV/WebUI
Miscellaneous	DynDNS support Firmware update over SSV/WebUI IEC 61850 / 60870-5-104 protocol support (optional)

Displays / Control Elements	
LEDs	1x Power 1x Wireless 1x System status (programmable) 1x VPN status (programmable)

Electrical Characteristics	
Power supply	12 .. 24 VDC from external power supply
Power consumption	< 15 W

Mechanical Characteristics	
Protection class	IP20 industrial case for 35 mm DIN-rail mounting
Mass	< 150 g
Dimensions	112 mm x 100 mm x 22.5 mm
Operating temp.	0 .. 60 °C

Standards and Certifications	
EMC	CE
Environmental standards	RoHS, WEEE

Order information	
Order number	PX-83162

SCOPE OF DELIVERY

- 1x Application Gateway IGW/935

STARTUP PACKAGE (OPTIONAL)

- 1x Plug-in power supply
- 1x CD-ROM

PRODUCT VARIANTS

- Customized variants with preinstalled configuration and/or individual case design on request.

SIMILAR PRODUCTS

- Wireless Application Gateway IGW/936-L

COMPATIBLE PRODUCTS

- A/D-Extension IO/5640

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