

IGW/935

Web Application Gateway with SSV/WebUI Framework



- ✓ **DVI/HDMI Interface**
- ✓ **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**

Description

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 **SSVWebUI** framework data can be passed for diverse purposes to very different end devices like PCs, smartphones or tablets. The IGW/935 sends for example data prepared for visualization directly to a display over its **DVI/HDMI** interface.

To show this possibilities the IGW/935 offers an **SSVWebUI** demo page, which can be accessed with a web browser or is directly shown in full screen on a video monitor connected to the **DVI/HDMI** interface.

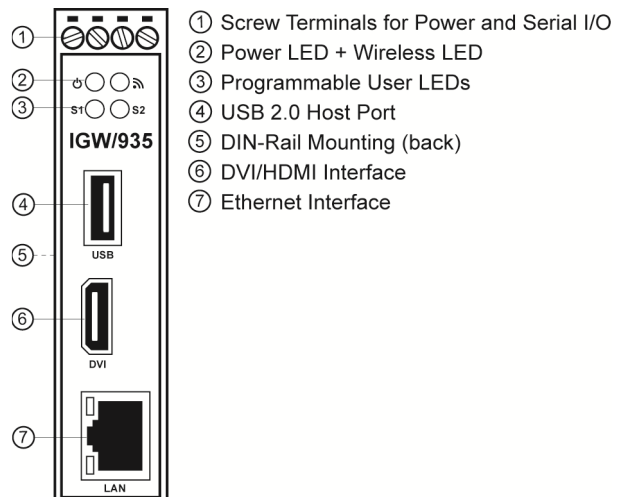
The **SSVWebUI** uses only standard web technologies for the output like **HTTP(S), HTML, CSS, JavaScript** and **REST**-based web services, thus there is no need to learn any proprietary programming language. As a result every professional web developer has the know-how to customize the web-based user 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, **web browser** with **HTML5, CSS3** and **JavaScript** support, **(S)FTP/TFTP server** and programming environments for **Python, PHP** and **Java**.

Overview



Basic hardware interfaces of the IGW/935

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 **SSVWebConfig Tool** 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 Mbps (RJ45)
USB	1x USB 2.0 Host
Serial I/Os	1x RS485 serial port (screw terminal)
HMI	1x DVI/HDMI
Special Functions	
RTC	1x Real Time Clock with internal supercapacitor (backup time ~125 h)
Watchdog	1x Timer watchdog (hardware-based, software-configurable) 1x Power supervisor (hardware-based)
Software	
Operating system	Embedded Linux kernel version 2.6
Web server	lighttpd with SSL support
Web browser	WebKitGTK+ (HTML5, CSS3, JavaScript)
Programming environment	C, C++, Unix shell, Python 2.6, PHP 5.3, Java (JamVM 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
TCP servers	Telnet, (S)FTP, TFTP, HTTP
Security protocols	SSL/SSH, HTTPS, OpenVPN, IPsec
Firewall	netfilter + iptables
Proxy functions	HTTP(S), FTP, Telnet, SSH, generic TCP port mapping
Configuration	WebUI
Miscellaneous	DynDNS support Firmware update over WebUI IEC 61850 protocol support (optional)
Displays / Control Elements	
LEDs	1x Power 1x Wireless (not used) 1x System status (programmable) 1x VPN status (programmable) 1x LAN LED for Ethernet interface
Electrical Characteristics	
Power supply	12 .. 24 VDC from external power supply
Power consumption	< 5 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 Web Application Gateway IGW/936-L

Contact Information

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