



Z-PASS2-S

IEC 61131 ADVANCED CONTROL UNIT, STRATON EMBEDDED AND 3G+/ETH VPN ROUTING

Highlights

- **Controller based on SoftPLC Straton IEC 61131-2**
- **Modem / Router 3.5 G (GSM, GPRS, Edge, UMTS, HSDPA, HSUPA)**
- **Industrial protocol support: MODBUS RTU, MODBUS TCP-IP, custom**
- **Network protocols support: PPP, HTTP, FTP, SMTP**
- **Energy Management protocols support: IEC 60870-101, IEC 60870-104, IEC 61850**
- **Embedded web server**

Z-PASS2-S is an advanced control unit, based on IEC 61131 based, IDE Straton and 3G+/ETH VPN router. This powerful RTU includes Z-PASS2-S-E version supporting IEC 60870-5-101, IEC 60870-204, IEC 61850 energy management protocols. It also provides maximum reliability for remote maintenance, telecontrol and data monitoring applications. The embedded 3G+ modem/router allows a redundant connection in plant automation applications, power generation control, renewable energy management (biomass, solar, wind, etc.) and smart grid systems. Z-PASS2-S is configurable as a web server and TCP-IP node. The device can easily be integrated into SCADA, EMS and monitoring web platforms.





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TECHNICAL DATA

GENERAL DATA

Power Supply	11..40 Vdc; 19..28 Vac
Max Consumption	4 W @ 24Vac (typical), Max 6 W
Isolation	1500 Vac
LED status indicators	Power Supply Rx-Tx serial communication Ethernet link and traffic Modem status PLC working
Pollution Degree	2
Protection Degree	IP20
Operating Temperature	-20 °C..+55 °C
Dimension (LxHxW)	100 x 52,5 x 112 mm
Case	PA6 black plastic glass reinforced
Weight	450 g
Connection	Removable screw terminals 3 ways, step 5 mm
Mounting	35 mm DIN rail guide IEC EN 60715

COMMUNICATION

Ethernet	Nr 2 Fast Ethernet 10/100 Tx port, RJ45 front connector
Serial ports	Nr. 1 RS232/RS485 switchable port, max baud rate 115k on connector Nr. 1 RS485 port, baud rate max 115k on IDC connector Nr. 1 RS485 port, max baud rate 115k on terminals
USB ports	Nr. 1 USB host port on side connector Nr. 1 USB otg port on microUSB side connector
Modem	UMTS, HSDPA (dual band) ; EDGE, GPRS, GSM (quad band)
Supported protocols	ModBUS TCP-IP, ModBUS RTU
Function Modes	ModBUS Bridge, ModBUS Gateway*, Serial Tunnelling*, 3G/ Ethernet router/modem HSDPA, HSUPA*, VPN, Remote Control - Single LAN, Remote Assistance - Point-To-Point (*programmable functions)

CPU / MEMORY

Processor	ARM9 @ 400 MHz
Flash Memory (data)	1 GB
RAM	64 MB / 64 kB
Slot Micro SD	Yes
Scheda Micro SD	Max 32 GB

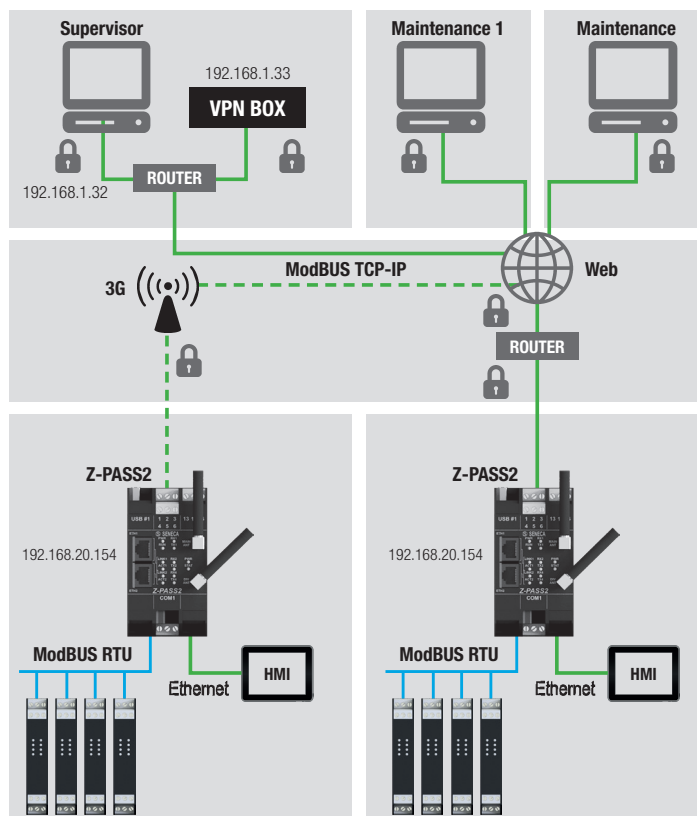
SETTINGS

Embedded Web Server	HTTP server with PHP and CGI support; Secure access through basic authentication (login/ password) Custom web pages
Firmware update	Locally by USB pendrive
Seneca VPN Manager	Yes
Seneca Discovery Device	Yes
SESC (Seneca Ethernet to Serial Connection)	Yes
SoftPLC IEC 61131	StratON
Configuration tools	SENECA VPN BOX Manager, SDD (Seneca Discovery Device), SESC (Seneca Ethernet to Serial Connection), StratON, Z-NET4

NORMS

Certification Marks	CE
Norms	EN61000-6-4, EN61000-6-2 EN60950, EN301 511, EN301 489-1, EN301489-7

APPLICATION NOTE



ORDER CODES

Code	Description
VERSION	
Z-PASS2-S-A	StratON Advanced Control Unit with built-in Eth/3G+ router, RS485 serial interfaces
Z-PASS2-S-B	StratON Advanced Control Unit with built-in Eth/3G+ router, RS232/RS485 serial interfaces
Z-PASS2-S-A-E	StratON Advanced Control Unit with built-in Eth/3G+ router, RS485 serial interfaces, including energy protocols (IEC 60870-5-101, IEC 60870-5-104, IEC 61850)
Z-PASS2-S-B-E	StratON Advanced Control Unit with built-in Eth/3G+ router, RS485 serial interfaces, including energy protocols (IEC 60870-5-101, IEC 60870-5-104, IEC 61850)

VPN SERVER

VPN BOX	VPN Server & Connectivity module for remote control and remote assistance
VPN BOX VM	VPN Server - Virtual Machine for remote control and remote assistance
VPN BOX MANAGER	Configuration software for VPN BOX, Server, sign-in credentials
VPN CC	VPN Client Communicator. Software tool for VPN network connection to install on client PCs

ACCESSORIES

A-GSM	Dual band swing GSM external antenna, cable 3,2 m, SMA
A-GSM-QUAD	GSM quadband antenna
CS-DB9M-MEF-1012	Serial communication cable (DB9M / MEF 10-12)
MSD	Micro SD memory card with adapter
Z-PC DINAL2-52.5	DIN rail bus system head terminal + 2 slots 52.5 mm

SOFTWARE

SDD	SENECA Discovery Device, IP scanner for Z-KEY, Z-PASS1, Z-PASS2
SESC	SENECA Ethernet to Serial Connection tool for Z-KEY, Z-PASS1, Z-PASS2
TEMP-TAG-Z-PASS	Excel template for Z-PASS-1/2/2S tags (gateway mode)
Z-NET4	Z-PC system configurator, Web Editor included

IEC 61131 SOFTWARE

Straton	Details on IEC 61131 IDE and software licenses on www.seneca.it or support@seneca.it
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