Z-PASS2

INDUSTRIAL GATEWAY WITH VPN SUPPORT, SERIAL DEVICE SERVER, 4G WW ROUTER, BUILT-IN GPS AND I/O

Highlights

- **Industrial Gateway, Serial Device Server, 3G+/ 4G+ Router**
- **Supported protocols: ModBUS TCP Server, ModBUS RTU Master/Slave, FTP/SFTP Server, HTTP/HTTPS Server, OpenVPN, SSL, MQTT, OPC UA**
- **Nr. 2 Fast Ethernet ports10/100Tx on front RJ45**
- **Nr.1 switchable serial port RS232 /RS485**
- **Nr.2 RS485 serial ports**
- **Nr.1 USB host port**
- **Nr.1 modem 4G / LTE World Wide multiband with GPS / GPS / GLONASS / BeiDou (compass) / Galileo / QZSS Glonass**
- **Nr.6 built-in digital I/O channels**
- **Remote access functionality (P2P) and Remote Control (Single LAN) with LET'S platform**
- **Cloud BOX System**

Z-PASS2 is a multi-function device (industrial gateway / serial device server / Router 3G+ or 4G) able to manage up to a maximum of 32 clients, ideal for industrial and IoT/Cloud applications.The device has 1 digital input for safety interlocking of the remote connection, 1 digital output for signalling of VPN connection in progress (associated with status LEDs) and 4 general purpose configurable digital channels. Equipped with 2 Fast Ethernet ports (manageable in Switch and LAN/ WAN mode),3 serial ports and 1 USB host 2.0 port, Z-PASS2 supports ModBUS TCP Server, ModBUS RTU Master /Slave, FTP / SFTP Server,HTTP / HTTPS server, OpenVPN, SSL protocols. Includes IIoT / Industry 4.0 connectivity with OPC UA and MQTT protocols.

Z-PASS2 also performs VPN / Tunnel communication functions , 3G+ or 4G / Ethernet router and redundant communication system thanks to penta-band 3G+ modem worldwide or 4G / LTE with integrated GPS. The device is easily configurable via Web Server. Z-PASS2 is integrated both in the LET'S platform where it can support Point-To-Point (remote assistance) and Single LAN connections (remote control) both in the Cloud BOX system of supervision and data centralization. In both systems it can rely on physical servers as well as virtual.

4G · OPC UA · MQTT · BUILT-IN I/O · LET'S VPN CONNECTIVITY SOLUTIONS · Cloud BOX

100% Made & Designed in Italy

SENECA

www.seneca.it

Z-PASS2

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TECHICAL DATA

GENERAL DATA

Power supply	19..40 Vdc; 19..28 Vac
Power consumption	Typical 4 W @ 24Vac, Max 6 W
Isolation	1500 Vac
LED status indicators	Power supply / Ready to use; Input/output status; Remote connection (RCD); VPN connection (VPN) LAN/WAN (Ethernet LAN/WAN mode); SERV (VPN BOX Service); Rx-Tx serial communications; Ethernet links and traffic
Protection degree	IP20
Flash Memory (data)	1 GB
RAM	64 MB
Micro SD board	Max 32 GB
I/O channels	1 DI VPN connection enabled; 1 DO VPN connection in progress; 1 DI for generic use; 1 DI for generic use; 2 DI/DO configurable
Operating temperature	-20 °C..+65 °C
Dimension (wxhxd)	100 x 52,5 x 112 mm
Weight	280 g
Case	Black plastic PA6 glass filled
Mounting	For 35 mm rail IEC EN 60715

COMMUNICATION

Ethernet ports (ETH1, ETH2)	Nr. 2 Fast Ethernet 10/100Tx ports on RJ45 front panel
Serial ports (COM1, COM2, COM4)	Nr. 1 RS232 / 485 serial port switchable via software, max baud rate 115k on connector No. 1 RS485 port, max baud rate 115kbps on IDC10 connector for bus and terminals No. 1 RS485 port, max baud rate 115kbps on terminals
USB ports	Nr. 1 USB host port on side type A connector
Modem	Multiband M2M/IoT, 4G / LTE World Wide LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B2 0/B25/B26/B28 LTE-TDD: B38/B39/B40/ B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B
GPS	GPS / GLONASS / BeiDou (compass) / Galileo / QZSS
Protocols	ModBUS TCP server, ModBUS RTU master/ slave, FTP/SFTP server, HTTP/HTTPS server
IoT protocols	MQTT, OPC UA, http post
Operating mode	Modbus Gateway; Modbus Gateway shared memory; Transparent Gateway; WiFi Access Point; 3G+ (4G)/ Ethernet Router

CONNECTIVITY

Nr Max Client TCP-IP (Server Mode)	32
Nr Max Client variables / Tags	2000
Nr Max Slave nodes Modbus RTU/ASCII	128
Nr Max Client VPN	Point-To-Point: 1; Single LAN: 496

SECURITY

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Remote access lock	Mechanical, Digital Input
LAN/WAN network division	Sì
Data Encryption / Authentication	128bit / SHA1 160 bit
Fixed TCP-IP ports for remote assistance	Sì
Security protocols	OpenVPN, SSL

SETTINGS & SOFTWARE

Web server	Yes
VPN management software	VPN BOX Manager, OpenVPN, VPN Client Communicator (PC software and mobile App)
SDD (Seneca Discovery Device)	Yes
SESC (Seneca Ethernet to Serial Connection)	Yes
Advanced functions	Advanced Diagnostics; SD Card Datalogging; IF THEN ELSE Logic; LET'S remote assistance / remote control support; Cloud BOX support; Third-Party Cloud Support

STANDARD

Approvals	CE
Norms	ETSI EN 301489-7, EN 61000-6-4, EN 61000-6-2, EN 301511, EN 301489-1, EN 301489-7, IEC / EN 60950

CONNECTION SOLUTIONS

Z-PASS2

www

Cloud BOX

LET'S

4G WW

OPC UA – MQTT

ModBUS Ethernet
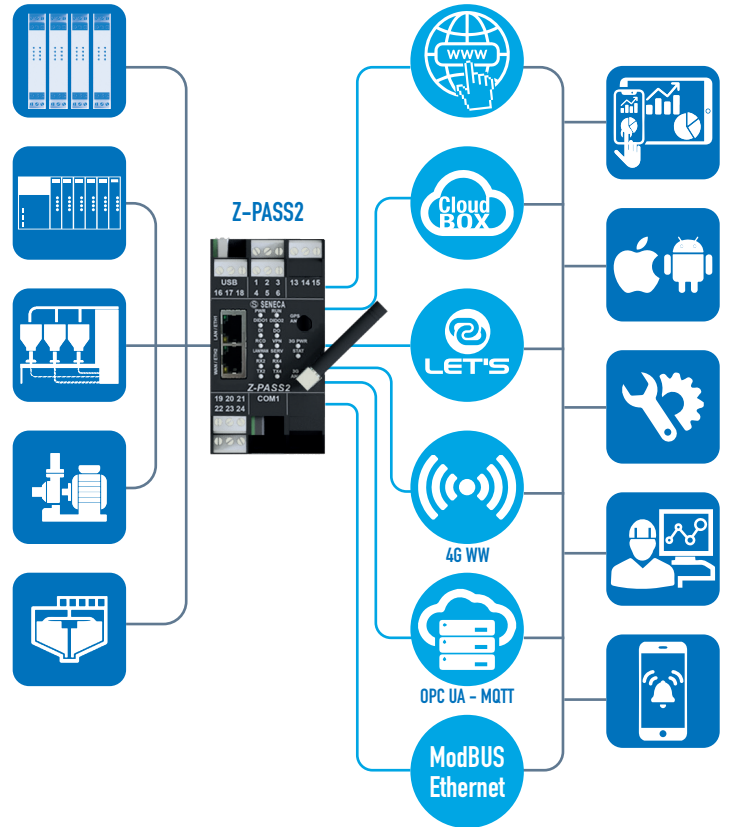
ORDER CODES

Code	Description
ROUTER / GATEWAY	
Z-PASS2-4GWW	Industrial Gateway/Router with VPN support - Serial Device Server with integrated I/O, GPS and 4G/LTE WW modem
SERVER VPN	
VPN BOX	LET'S - VPN server optimized for Point-to-Point / Single LAN connections
VPN BOX VM	LET'S - Virtual Machine VPN Server optimized for Point-to-Point / Single LAN connections
VPN BOX MANAGER	LET'S - VPN BOX and VPN Network Management Configuration Software
SERVER CLOUD	
CLOUD BOX	Micro Scada / Industrial IoT Box, max 5,000 tags
CLOUD BOX VM-D	Virtual Server for data collection from RTU SeAL, max 1 demo device / 150 tags
CLOUD BOX VM-1K	Virtual Server License for data acquisition from RTU SeAL max 1,000 tags
CLOUD BOX VM-5K	Virtual Server License for data acquisition from RTU SeAL max 5.000 tags
CLOUD BOX VM-10K	Virtual Server License for data acquisition from RTU SeAL max 10,000 tags
CONFIGURATORS	
VPN Client Communicator	Client software for VPN networks managed by VPN BOX
VPN CC Mobile	VPN Client Communicator app mobile
SENECA SMS	Command management app
SDD	SENECA Discovery Device, IP scanner for Z-KEY, Z-PASS1, Z-PASS2
SESC	SENECA Ethernet to Serial Connection for Z-KEY, Z-PASS1, Z-PASS2
ACCESSORIES	
CS-TIP-MEF-PH	Serial communication cable (Test leads / 4-way female connector) for Z-TWS4, Z-PASS1/2
CS-DB9M-MEF-PH	Serial communication cable (DB9M connector / 4-way female connector) 3 wires mt 1,5
CE-RJ45-RJ45-R	Straight Ethernet cable (RJ45 / RJ45)
MSD	Micro SD memory card with adapter
Z-PC-DINAL2-52.5	DIN rail quick mounting bracket - HEAD +2 SLOT P=52.5mm
ANTENNAS	
A-GSM	External multi-band butterfly antenna with 3 m cable and male SMA connection
A-GSM-DIR-5M	Compact GSM-DECT-UMTS directional antenna
A-GSM-OMNIDIR	Omnidirectional GSM-UMTS-WIFI Antenna
A-GSM-OMNIDIR-10	Omnidirectional GSM-UMTS-WIFI antenna with 10 m cable length
A-GSM-QUAD-N	GSM/3G/4G/LTE high performance omnidirectional antenna
A-GPS-SMA	External GPS antenna with magnetic base and male SMA attachment

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