



# Z-PASS2

## INDUSTRIAL GATEWAY WITH VPN SUPPORT, SERIAL DEVICE SERVER, ROUTER 3G+/4G\*, GPS AND BUILT-IN I/O

### Highlights

- **Industrial Gateway, Serial Device Server, Router 3G+/4G\***
- **Supported protocols: ModBUS TCP Server, ModBUS RTU Master/Slave, FTP/SFTP Server, HTTP/HTTPS Server, OpenVPN, SSL**
- **Nr.2 Fast Ethernet 10/100Tx ports on RJ45 connector**
- **Nr.1 switchable RS232/RS485 serial port**
- **Nr.2 RS485 serial port**
- **Nr.1 porta USB host**
- **Nr.1 worldwide pentaband 3G+ or 4G LTE modem with built-in GPS**
- **Security interblock**
- **Nr.6 built-in digital I/O channels**
- **Remote assistance (P2P) and Telecontrol (Single LAN) connection modes with LET'S platform**

Z-PASS2 is a multifunction device (industrial gateway / serial device server / Router 3G+/4G) with built-in I/O and GPS receiver, designed to manage up to a maximum of 32 clients.

The device has nr.1 digital input for security interlock of remote connection, nr.1 digital output for signaling of VPN running connection and nr.4 configurable digital channels.

Equipped with nr.2 Fast Ethernet ports (managed in Switch and LAN / WAN mode ), nr.3 serial ports and nr.1 USB host 2.0 port, ZPASS2 supports protocols such as ModBUSTCP Server, ModBUSRTU Master/ Slave, FTP/SFTP Server, HTTP/HTTPS Server, OpenVPN, SSL.

Z-PASS2 also performs VPN / Tunnel communication, 3G + (or 4G) / Ethernet router and redundant communication system with worldwide pentaband (or 4G / LTE) modem including also a GPS receiver.

Integrated into the LET'S remote assistance and telecontrol platform, Z-PASS2 can support Point-To-Point or Single LAN connections. The device is easily configurable via Web Server.



# Z-PASS2



## INDUSTRIAL GATEWAY WITH VPN SUPPORT, SERIAL DEVICE SERVER, ROUTER 3G+/4G\*, GPS AND BUILT-IN I/O

### TECHNICAL DATA

#### GENERAL DATA

Power Supply	19..40 Vdc; 19..28 Vac
Power Consumption	Typical 4 W @ 24Vac, Max 6 W
Isolation	1.500 Vac
LED Status Indicators	Ready to use / I/O status /Remote Connection (RCD) VPN connection (VPN) / LAN/WAN (Ethernet mode) SERV (VPN BOX Service) / Rx-Tx serial communication Ethernet link / traffic
Protection Degree	IP20
Operating Temperature	-20..+65°C
Dimension (wxhxd)	52,5x100x112 mm
Weight	280 g
Case	PA6 glass fiber reinforced , black color
Mounting	35 mm DIN rail IEC EN 60715

#### COMMUNICATION

Ethernet ports (ETH1, ETH2)	Nr.2 Fast Ethernet 10/100Tx ports on RJ45 front connector
Serial Ports (COM1, COM2, COM4)	Nr.1 RS232 / RS485 serial port, max baud rate 115kbps on connector Nr.1 RS485 port, max baud rate max 115kbps on IDC10 connector Nr.1 RS485 port, baud rate max 115kbps on terminals
USB Ports	Nr.1 USB host port on side connector type A
Modem / Router 3G+ Worldwide*	GSM /GPRS/EDGE Quad-band: GSM 850 MHz, GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz 850-900-1800-1900 MHz UMTS/HSPA+ Penta-BAND : WCDMA 2100/900, 2100/850, 1900/850 MHz GNSS: 30 Channels: GPS 16 channels and GLONASS 14 channels
Modem / Router 4G – LTE*	4G/LTE Model (Europe, Africa, Middle East, Korea, Thailand, India) GSM/GPRS/EDGE Dual-band: 1800/900 MHz UMTS/HSPA+ Tri-Band: WCDMA 2100/850/900 MHz 4G LTE BAND 6-Band: 2100/1800/ 850/ 2600/ 900/ 800 MHz GNSS: GPS/GLONASS/BeiDou/Galileo/QZSS up to 55 channels
Industrial protocols	ModBUS TCP Server/Client, ModBUS RTU Master/Slave
IT protocols	FTP server, SFTP server, HTTP server, HTTPS server, OpenVPN
Energy Protocols (opt.)	IEC 60870-101/104, IEC 61850
Nr. Max client VPN	Point-To-Point: 1; Single LAN: 496
Nr. Max simultaneous TCP client connections	32
Operating Functions	ModBUS Gateway, Remote Virtual COM, Tunnel P2P / P2MP / TCP / UDP, 3G+/Ethernet Router, VPN, Telecontrol Single LAN, Remote Assistance Point-To-Point, LAN / WAN, Switch Ethernet, Layer 2 - Industrial Ethernet

#### CPU & MEMORY

Processore	ARM 32 bit
Flash Memory (dati)	1 GB
RAM	64 MB
RAM	4 kB
Slot Micro SD	Yes, Max 32 GB

#### I/O

Assigned Signals	1DI / 1DO (VPN Connections)
Free Use	1DI / 1DO
Programmable mixed	2 DI/DO

#### SECURITY

Remote Access block	Mechanical, Inteblock digital input for remote connection
Data Encryption	128bit
Data Authentication	SHA1 160bit
Password	SI
Security protocol	OpenVPN, SSL, HTTPS Server

#### SETTINGS & SOFTWARE

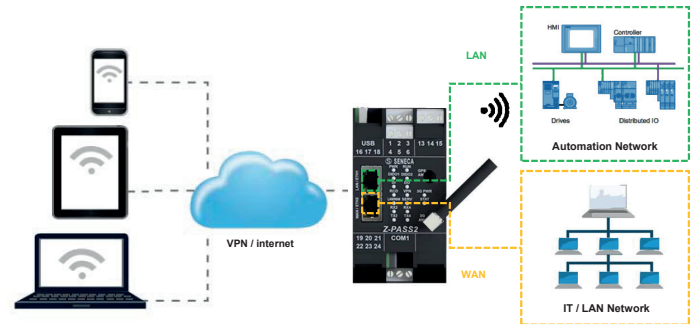
Tools & Packages	Web Server, VPN Box Manager, VPN Client Communicator, (PC desktop and App) Seneca DiscoveryDevice
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#### STANDARD

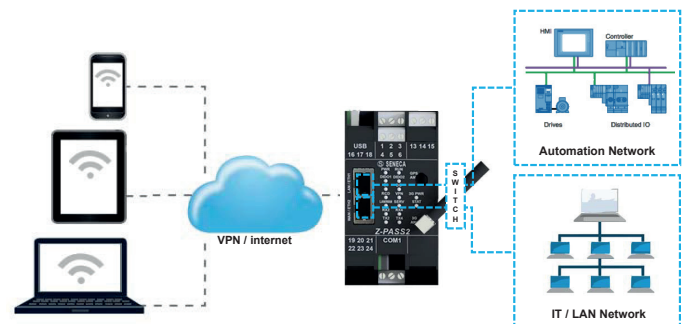
Approvals	CE
Norms	ETSI EN 301489-7, EN 61000-6-4, EN 61000-6-2, EN 301511, EN 301489-1, EN 301489-7, IEC / EN 60950

\* Alternatively

### LAN/WAN OPERATING MODE



### LAN SWITCH OPERATING MODE



### ORDER CODES

Code	Description
<b>ROUTER / GATEWAY</b>	
Z-PASS2-IO	VPN Industrial Gateway - Serial Device Server, 2DI, 2DO, 2DI/DO, worldwide modem, 3G+/Ethernet Router, GPS
Z-PASS2-IO-4G-EU	VPN Industrial Gateway - Serial Device Server, 2DI, 2DO, 2DI/DO, modem 4G/ Ethernet Router, GPS
<b>VPN PLATFORM</b>	
VPN BOX	LET'S - VPN Server for Point-to-Point / Single LAN connections
VPN BOX VM	LET'S - VPN Server Virtual Machine for Point-to-Point / Single LAN connections
VPN BOX-D	LET'S - VPN BOX Point-to-Point service, 30 day free trial up to 2 devices
VPN BOX VM-D	LET'S - VPN Server Virtual Machine for Point-to-Point / Single LAN connections up to 2 devices
VPN CC	LET'S - VPN Client Communicator, remote access software
VPN CC APP	VPN CC mobile App version
<b>TOOL SOFTWARE</b>	
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
<b>ACCESSORI</b>	
A-GPS-SMA	GPS antenna with SMA connector
A-GSM	Dual band swing GSM external antenna, cable 3,2 m, SMA
A-GSM-QUAD-N	4G/WiFi omnidirectional antenna, FME, L=3mt
MSD	Micro SD memory card with adapter
Z-PC-DINAL2-52.5	DIN rail bus system head terminal + 2 slots 52.5 mm



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