



Z-PASS2

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

AXIS™

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.



SENECA
www.seneca.it



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

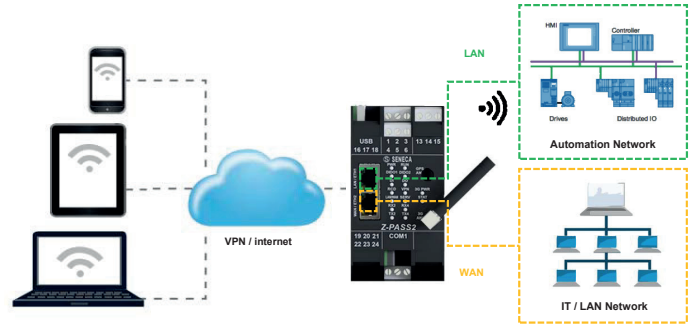
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| Tools & Packages | Web Server, VPN Box Manager, VPN Client Communicator, (PC desktop and App) Seneca DiscoveryDevice |
|------------------|---|

STANDARD

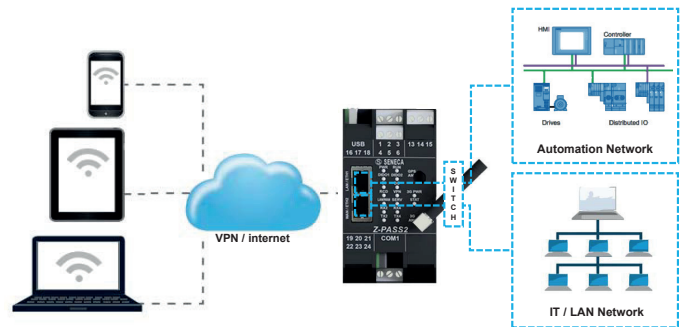
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|-----------|---|
| Approvals | CE |
| Norms | ETSI EN 301489-7, EN 61000-6-4, EN 61000-6-2, EN 301511, EN 301489-1, EN 301489-7, IEC / EN 60950 |

* Alternatively

LAN/WAN OPERATING MODE



LAN SWITCH OPERATING MODE



ORDER CODES

| Code | Description |
|-------------------------|--|
| ROUTER / GATEWAY | |
| 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 |
| VPN PLATFORM | |
| 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 |
| TOOL 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 |
| ACCESSORI | |
| 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 |