



Z-PASS2-RT

VPN IIoT Edge Gateway / 4G Router

Highlights

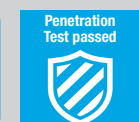
- **Industrial Gateway, Serial DeviceServer, Bridge, Modem/Router4G**
- **Supported protocols: ModBUS TCP Server, ModBUS RTU Master /Slave, FTP/SFTP Server, HTTP /HTTPS Server, OpenVPN, SSL, MQTT, OPC UA, http post**
- **Nr. 2 Fast Ethernet Ports 10/100Tx on front RJ45**
- **Nr.1 switchable serial port RS232 RS485**
- **Nr.2 RS485 serial ports**
- **Nr.1 USB host 2.0 port**
- **Nr.1 4G / LTE World Wide modem with GPS / GNSS / GLONASS / BeiDou compass / Galileo / QZSS Glonass**
- **Nr.6 digital I/O channels and 2 analog inputs**
- **Remote Assistance (P2P) and telecontrol (Single LAN) functions with LET'S platform**
- **Cybersecurity certificate (penetration testing) OWASP, NIST800 115, Risk Analysis, IEC 62443**

Z-PASS-2-RT is a multifunction device (industrial gateway serial device server 4 G LTE router) enabling a virtually unlimited number of clients. The device has 6 digital channels and 2 configurable analog inputs.

Equipped with 2 Fast Ethernet ports manageable in Switch and LAN/WAN mode), 3 serial ports and 1 USB host 2.0 port, Z-PASS-2-RT supports ModBUS TCP Server, ModBUS RTU Master/Slave, FTP SFTP Server, HTTP HTTPS server, OpenVPN, SSL protocols. It includes also IIoT Industry 4.0 connectivity with OPC UA, MQTT and http post protocols.

Z-PASS-2-RT also performs VPN Tunnel communication functions 4G/Ethernet router and redundant communication system thanks to 4G/LTE worldwide penta band modem with built-in GPS. The device is easily configured via Web Server.

Z-PASS-2-RT is integrated in "LET'S" platform supporting Point-To-Point Remote Assistance or Single LAN Telecontrol connections. The device complies with the highest IIoT security standards starting from compliance to penetration test conducted according to OWASP, NIST-800 115 Risk Analysis and IEC 62443.



Z-PASS2-RT



VPN IIoT Edge Gateway / 4G Router

TECHNICAL DATA

GENERAL DATA

Power supply	11..40 Vdc
Power consumption	Da 2,5 W s 10 W @ 24 Vdc
Isolation	1.500 Vac
Status Indicators (LED)	Ready to use; I/O status; RX/TX serial communication; Ethernet link and traffic; Modem power; Network power; Data transfer
Protection degree	IP20
Flash memory (data)	≥4 GB
RAM	512 MB
Micro SD	Max 32 GB (Push-push slot for miniSIM card 15 X 25mm)
I/O Channels	Nr.6DI/DO configurable and Nr.2AI (mA, V)
Operating Temperature	-25..+65°C
Dimension (lxhxp)	52.5 x 112 x 100 mm
Weight	270 g
Case	Glass-filled black PA6 plastic
Mounting	For 35 mm rail IEC EN 60715
Approvals	CE, UKCA

COMMUNICATION

Ethernet ports (ETH1, ETH2)	Nr.2 Fast Ethernet 10/100Tx on front RJ45
Serial ports (COM1, COM2, COM4)	Nr.1 RS232 / 485 serial selectable via software, max baud rate 115kbps Nr.1 RS485, max baud rate 115kbps on IDC10 connector and terminals Nr.1 RS485, max baud rate 115kbps on terminals Nr.1 USB host type A side connector; Nr.1 Micro USB (debug)
USB ports	Nr.1 USB host type A side connector; Nr.1 Micro USB (debug)
CAN port	Nr.1 CAN port on terminals
Multiband modem	M2M/IoT, 4G / LTE World Wide
Geolocalization	GPS / GLONASS / BeiDou (compass) / Galileo / QZSS
Communication protocols	ModBUS TCP server, ModBUS RTU master/ slave, FTP/SFTP server, HTTP/HTTPS server
IoT Protocols	MQTT, OPC UA, http post
Modes of Operation	ModBUS RTU/ASCII TCP-IP Gateway, Modbus Gateway shared memory (via TCP-IP), Transparent Gateway, Serial Device Server, LAN/4G Router, LAN/WAN switch, datalogger, remote alarm unit, remote service/remote control VPN unit, LAN/WAN switch, Nat 1:1, Static Router

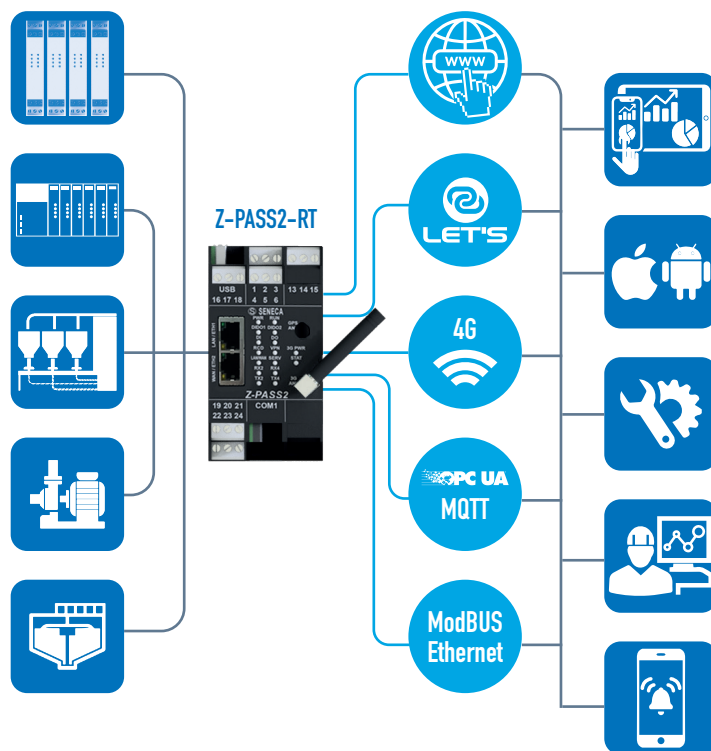
SECURITY

Remote Access Blocking	Mechanical, digital input
LAN/WAN Separation	Yes
Authentication	2-factor (Google Authenticator)
Permission management	Supervisor / Users / Groups
Encryption algorithm (data encryption)	OpenVPN AES-256bit-CBC + Auth SHA256 bit or user selectable
Fixed TCP-IP ports for remote assistance	Yes
Security protocols	OpenVPN, SSL, HTTPS Server, MQTT over SSL/TLS, TLS 1.2 or higher
SSL/TLS certificates	Automated TLS certificate management for HTTPS
Cybersecurity certificate (penetration testing)	Yes, OWASP, NIST 800-115, Risk Analysis, IEC62443

SETTINGS & SOFTWARE

Programming	Web Server
VPN management software	OpenVPN, VPN Client Communicator
Management tools	SDD (Seneca Discovery Device), SESC (Seneca Ethernet to Serial Connection)
Advanced Diagnostics	Yes
Logic If Then Else	Yes
LET'S remote assistance / telecontrol support	Yes

CONNECTIVITY



ORDER CODES

Code	Description
GATEWAY	
Z-PASS2-RT	VPN IIoT Edge Gateway / 4G Router
VPN SERVERS	
VPN-BOX-2	PC Box - VPN Server for simultaneous connections and low latency Point-To-Point / Single LAN
VPN-BOX-2-D	Test service on VPN-BOX-2 Point-to-Point valid for 30 days max 2 devices
VPN-BOX-2-VM	VPN-BOX-2 Virtual Machine
VPN-BOX-2-VM-D	VPN-BOX-2 Point-to-Point / Single LAN Virtual Machine max 2 devices
VPN-CC-2	VPN Client Communicator, remote access software VPN-BOX-2
SOFTWARE TOOLS	
SDD	SENECA Discovery Device
SESC	SENECA Ethernet to Serial Connection
ACCESSORIES	
CS-TIP-MEF-PH	Serial communication cable (Tips / 4-way female connector)
CS-DB9M-MEF-PH	Serial communication cable (DB9M connector / 4-way female connector)
CE-RJ45-RJ45-R	Straight ethernet cable (RJ45 / RJ45)
MSD	Micro SD memory card with adapter
Z-PC-DIN1-35	DIN rail quick mounting bracket 1 slot 35 mm pitch
Z-PC-DIN4-35	DIN rail quick mounting bracket 4 slots 35mm pitch
Z-PC-DINAL1-35	Support for quick mounting on DIN rail head + 1 slot 35 mm pitch
ANTENNAS	
A-GPS	External GPS antenna with MMCX magnetic base, 3m cable
A-GPS-SMA	GPS antenna with SMA mount
A-GSM	External GSM dual band swing antenna 3.2 m cable
A-GSM-DIR-5M	GSM-DECT-UMTS triband directional antenna SMA-M, cable 5 mt
A-GSM-MG	External magnetic dual band antenna SMA cable 2,5 mt
A-GSM-OMNIDIR	Omnidirectional antenna GSM-UMTS-WIFI, 5.1 dB, SMA-M cable 5 mt
A-GSM-OMNIDIR-10	Omnidirectional antenna GSM-UMTS-WIFI, 5.1 dB, SMA-M cable 10 mt
A-GSM-QUAD-N	Omnidirectional external antenna 4G/WI-FI, FME, 5 mt cable
A-GPS-SMA	Antenna GPS con attacco SMA