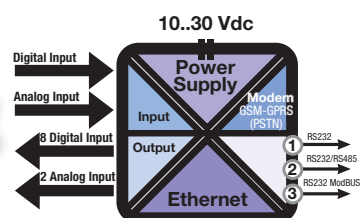
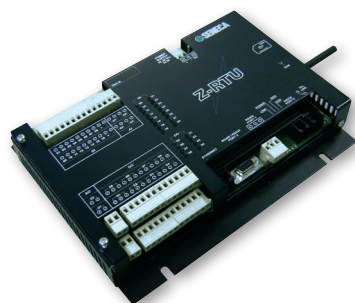


Z-RTU

ALL-IN-ONE REMOTE TERMINAL UNIT



Z-RTU is an all-in-one dedicated unit for telecontrol: simple solution for alarm management, datalogging and GSM/GPRS connection with central PC station. Z-RTU offers excellent calculus capabilities and memory, I/O on board, N.2 serial ports, N.1 Ethernet, an industrial dual band full type approval GSM modem for the remote connections, (alternatively, a PSTN modem may be installed) to allow the remote management of alarms, diagnostics and automatic data sending. For all these features Z-RTU is the ideal solution for environmental monitoring applications, water and pump control systems, gas control and energy management.

TECHNICAL DATA

General Data

Power Supply	10-30 Vdc
Case	IP20
Operating temperature	-10..55°C (suggested)
Dimension	185 x 242 x 36,90 mm
CPU	Flash: 16 MB (data) RAM: 8 MB, 64 retentive variables

Communication & IO

Communication ports	Nr 1 Ethernet 10 BaseT port Nr 1 RS232/RS485 programmable port Nr 1 RS485 Modbus expandable port Nr 1 RS232 Debug/User port
Modem	Dual band GSM 900/1800 MHz (opzionale tri-band), full type approval, GPRS class 8 PSTN, ITU-T V.90/ 56 k, ITU-T V.34
Fieldbus & System Protocols	PPP, http, TCP-IP, FTP, SMTP, ModBUS RTU Master (on RS485) / Master-Slave (on RS232/RS485), ModBUS TCP / IP
I/O	Nr 16 (8) digital input with internal/external suppli Nr 8 (4) SPDT relay digital output Nr 4 (2) analog input with settable loop power, 14 bit Nr 2 (1) voltage/current analog output, 12 bit

Programming

Configuration software	Z-NET, Z-NET RTU
OPC	Yes
PLC programming	Isagraf. CoDeSys
Main libraries	Automatic motor routine Working hours Counters and totalizers Flow and compensation calculation
Web Editor	Yes

Norms

Conformity	CE
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ORDER CODES

Code	Description
Z-RTU-1	Full I/O (16DI, 8 DO, 4 AI, 2 AO)
Z-RTU-2	Half I/O (8DI, 4 DO, 2 AI, 1 AO)
-GSM	GSM/GPRS Modem integrated full type approval
-PSTN	PSTN Modem
-SMART-SPEECH	Smart speech Board, vocal alarms
-PROFIBUS-DP	Profibus DP Slave Board
-CanOPEN	CANopen Master Board
-IEC 870	IEC 870 protocols

ACCESSORIES & SOFTWARE

Z-PC-DIN Backplane for power & bus communication pg. 36	Z-SUPPLY Switching power supply pg. 36	Z-NET IEC 61331 programming software pg. 36

SIMILAR PRODUCTS

M-RTU-GP Battery powered compact telemetry unit pg. 68	Z-TWS-3 Multi-function control unit pg. 38	Z-TWS-64 Multi-function control unit @ 64 bit pg. 39	Z-GPRS GSM / GPRS unit with ModBUS interface pg. 70

INTEGRATED SOLUTION

ALL-IN-ONE REMOTE CONTROL

- IEC 61131 programming System
- OPC & Scada open technology
- Options: CANOpen / Profibus build-in board, smart speech kit
- Main applications: water treatment, monitoring of public utilities' mains network and energy management

I/O WITH CONNECTORS

- 8+8 digital inputs (internal/external power supply)
- 2+2 analogue inputs (14 bits resolution, loop power)
- 4+4 digital outputs (relay SPDT, capacity 5A 250 Vac)
- 1+1 analogue outputs (12 bits resolution, volts/current)

ETHERNET 10 BASE-T

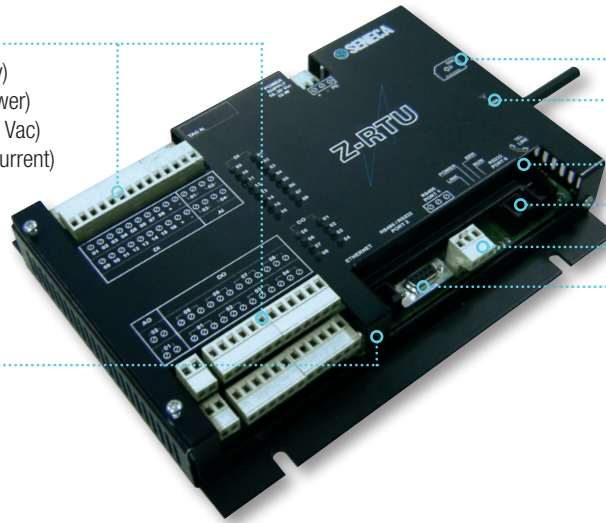
- Interface of control system with SCADA via OPC or Java/VB/Windows applications
- Use of other protocols such as ModBUS TCP/IP, ftp, http, SMTP, IEC 870

REMOTE COMMUNICATION

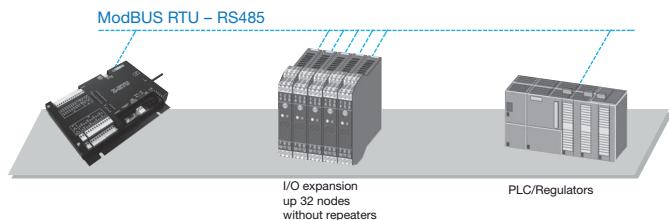
- Housing for SIM + antenna GSM/GPRS
- PSTN communication port

SERIAL PORTS

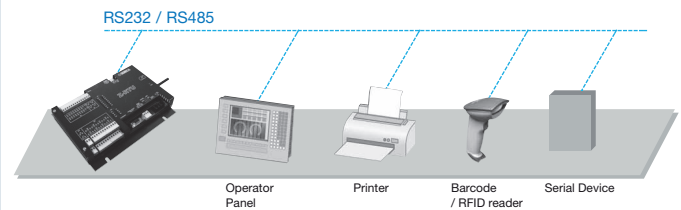
- RS232/RS485 programmable
- RS485 ModBUS RTU (connect I/O modules, ModBUS RTU/Master or Slave functions)
- RS232 debug/user



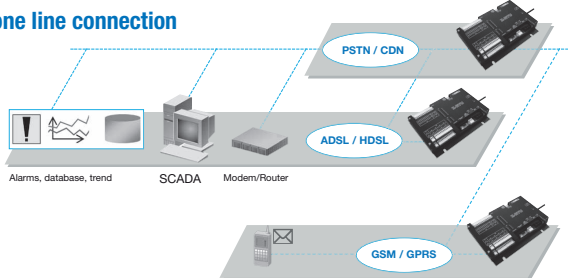
Serial connection (1)



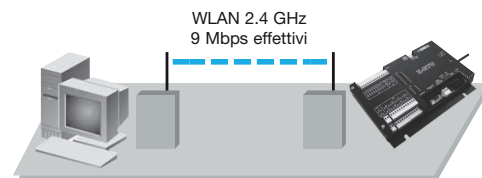
Serial connection (2)



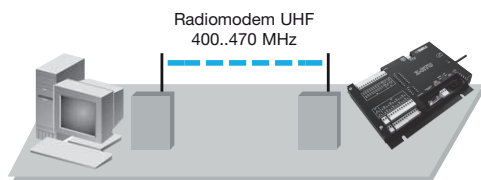
Phone line connection



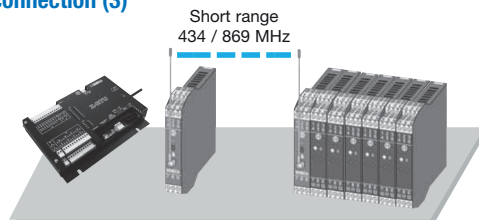
Wireless connection (1)



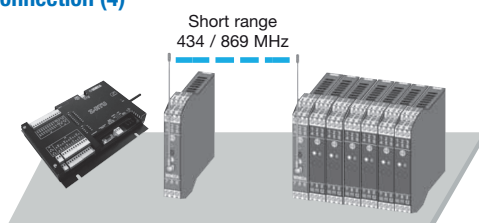
Wireless connection (2)



Wireless connection (3)



Wireless connection (4)



Web / PPP connection

