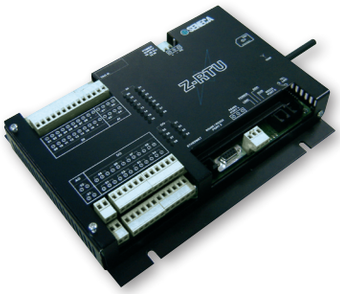
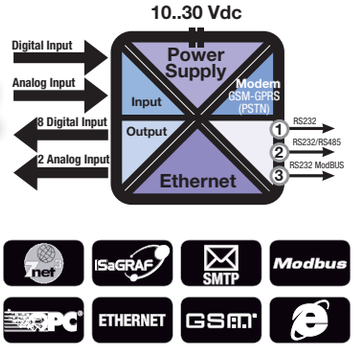
Z-RTU

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

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

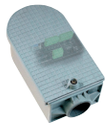
pg. 36

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

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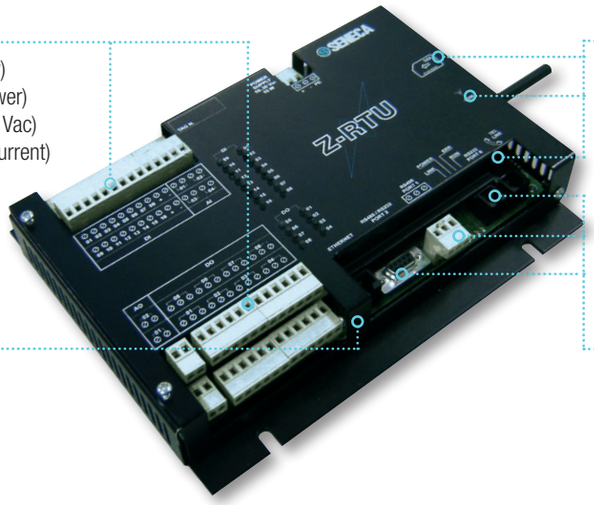
INTEGRATED SOLUTION

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)



REMOTE COMMUNICATION

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

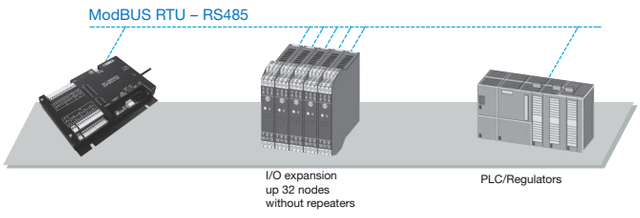
ETHERNET 10 BASE-T

- 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

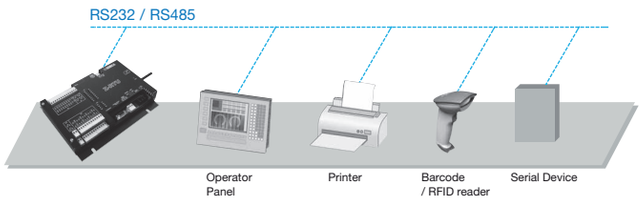
SERIAL PORTS

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

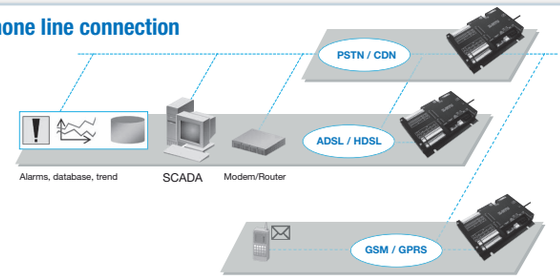
Serial connection (1)



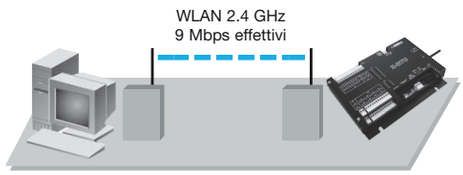
Serial connection (2)



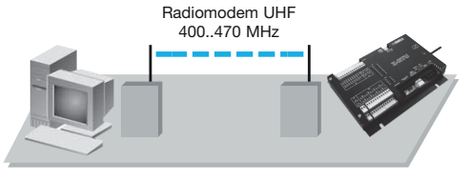
Phone line connection



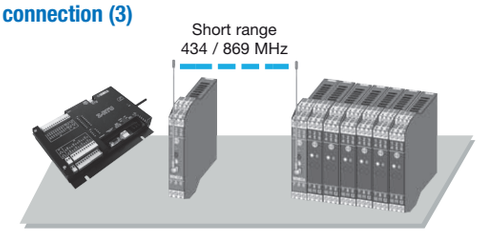
Wireless connection (1)



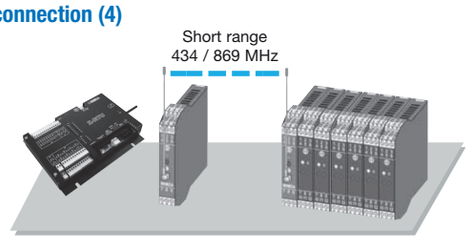
Wireless connection (2)



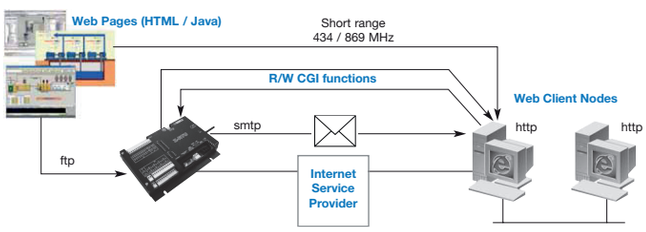
Wireless connection (3)



Wireless connection (4)



Web / PPP connection



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