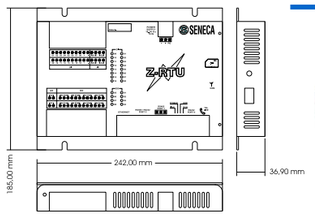

Z-RTU

Order Code

Z-RTU1 Z-RTU FULL I/O	Z-RTU1-PSTN Z-RTU FULL I/O + PSTN
Z-RTU2 Z-RTU HALF I/O	Z-RTU2-PSTN Z-RTU FULL I/O + PSTN
Z-RTU1-GSM Z-RTU FULL I/O + GSM/GPRS	SMART SPEECH SMART SPEECH UNIT
Z-RTU2-GSM Z-RTU HALF I/O + GSM/GPRS	PROFIBUS DP PROFIBUS DP SLAVE MODULE

Techinical Specification

GENERAL DATA

Power Supply	10-30 Vdc
Power Consumption	7 W (min); 15 W (max)
Status Indicators	Digital I/O status
	Power Supply
	Link Ethernet
	Modem status
	Error
Operating temperature	-10..+55 °C
Storage temperature	-20..+70 °C
Dimensions	185 x 242 x 36,90 mm
Weight	875 g
Case	Aluminum
Connection	Removable terminals with section of 2.5 mm²

COMMUNICATION, PROTOCOLS, PROCESSING

Communication Port	Ethernet: 1
	RS232/RS485 programmable: 1
	RS485 ModBUS expansion
	RS232 debug/user: 1
	Internal for modem connection: 1
GSM / GPRS	Dual band GSM 900/1800 MHz
	Data, voice, SMS, fax
	Speed up to 57,6 kbps
	Full type approval
	GPRS class 8 (option class 10)
	Compliant to GSM phase 2 / 2 +
Processor	CPU µP RISC 32 bit – 10 MIPS
Memory	Flash. 16 MB (data)
	RAM: 8 MB, 64 retention variables
System Protocols	PPP, HTTP, FTP, SMTP, ModBUS RTU Master (on RS485) / Master-Slave (on RS232/RS485), ModBUS TCP/IP

I/O

Digital Inputs	8 (+8) with internal/external power supply, LED indication
	Isolated each 8 group and 1500 Vac for all other voltage circuits
	Protection against polarity transients
Analogue Inputs	2 (+2), 14 bit
	Isolation between all circuits 1.500 Vac
	Voltage (0..5 / 0..10 / 1..5 / 2..10 V)
	Current (0..20 / 4..20 mA)
	Selectable loop power supply
Digital Outputs	4 (+4) SPDT relay contacts
	Resisitive load 5 A 250 Vac
	Galvanic isolation for each channel
Analogue Outputs	1 (+1), 12 bit, Fault load protection
	Isolated between all circuits 1500 Vac
	Voltage (0..10 / 2..10 V)
	Current (0..20 / 4..20 mA)

CONFIGURATIONS, NORMS, OPTIONS

Software Platform	Z-NET (IEC 61131 configurator)
	IEC 61131 programming toolkit
	Z-NET RTU (remote control)
	OPC Server (interexchange data)
	Web Server
	Datalogger trend
CE Norms	EN50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4; EN 50140/141; EN 61010-1; EN 60742; EN 61000-6-2, EN61000-4
Full I/O Option	16 DI, 4 AI, 8 DO, 2 AO
Modem option	PSTN
Other features	Clock and retention variables battery
	Power Supply voltage measurement

SENECA
INGEGNERIA E STRUMENTAZIONE

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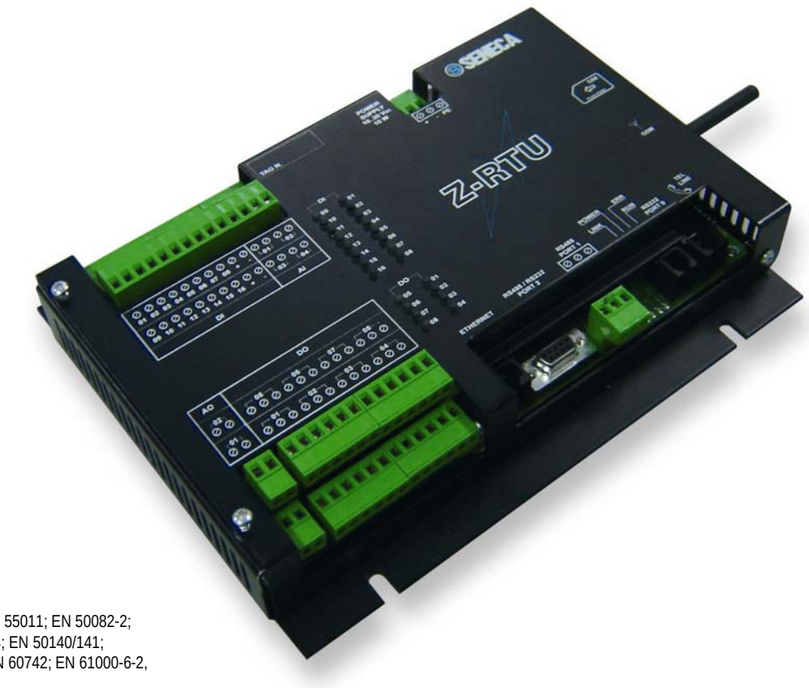
Z-PC Line

Z-PC Line

Z-RTU

Integrated Remote Terminal Unit



CE

EN50081-2; EN 55011; EN 50082-2;
EN 61000-2-2/4; EN 50140/141;
EN 61010-1; EN 60742; EN 61000-6-2,
EN61000-4

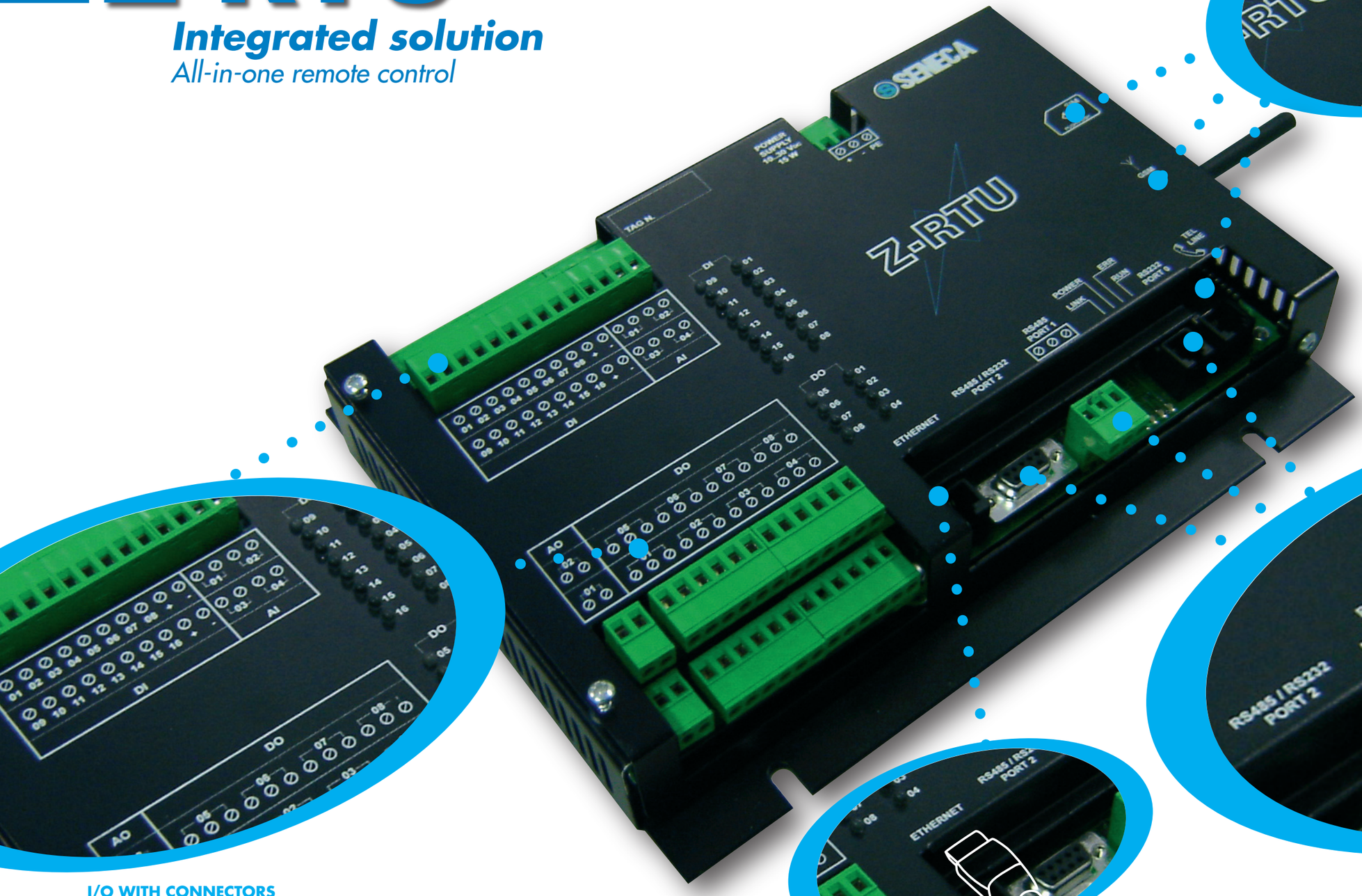
- On-board isolated I/O (16 DI, 8 DO, 4 AI, 2 AO) with integral connectors
- I/O expansion with DIN Series Z-PC modules
- 3 serial communication ports + 1 Ethernet 10Base-T
- Modem GSM/GPRS dual band (PSTN as option)
- Main applications: water treatment, monitoring of public utilities' mains network and energy management

SENECA

Z-RTU

Integrated solution

All-in-one remote control



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

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

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