



MP48

High performance RTU technology for mission critical applications in complex environments.



MP48

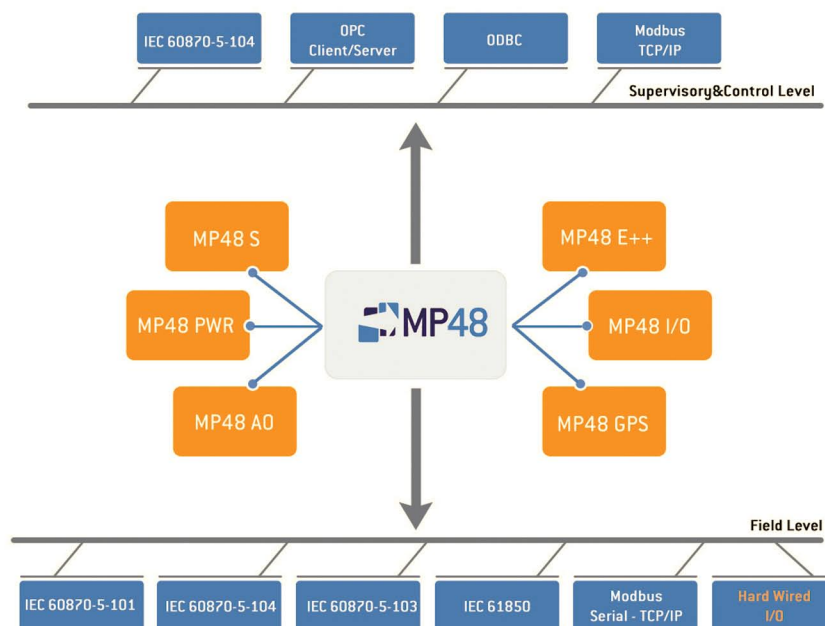
Based on extremely modular and reliable technology to be competitive and highly performing, the MP48 RTU, designed and manufactured by Selesoft, a Proteco Group Company, is able to offer products, systems and integrated solutions for applications in Energy, Industry and Water markets.



The criticality of the applications and the environmental characteristics of the sites, where these devices are forced to operate, require a special care in all production stages, from design to installation and production start-up. The quality of the product has been certified by accredited laboratories and certified testing procedures assure high quality standards during the production stage.

ARCHITECTURE

The high performances of the system are achieved through a 32 bit CPU where the LinuxRT operating system runs, with all the components that implement IEC 60870-5 (101, 103, 104 both client and server) protocol family, IEC 61850, Modbus (master and slave). The processing unit also allows to implement programmable logic according to IEC 61131 standard and to set up a programmable HMI panel with graphic design software.





MP48: A SUITE OF ELECTRONIC CARDS FOR MISSION CRITICAL APPLICATIONS

MP48 E++: *CPU based on standard PC104, Linux real time OS, MySQL DB management*

- PLC Function (standard IEC 61131)
- High density of I/O points on board:
 - 32 Digital Inputs
 - 16 Analog Inputs
 - 8 Digital Outputs
- 3 Ethernet (10/100 Mbit) and 4 serial interfaces (RS232/485)

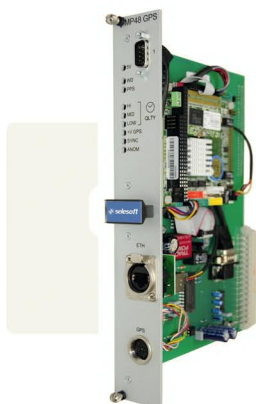


MP48 I/O: *To manage field data*

- 48 I/O for each board
 - 32 Digital Inputs
 - 16 Analog Inputs
 - 8 Digital Outputs
- 1 Serial (RS232/485) port
- Modbus protocol

MP48 A0: *To manage up to 8 analog outputs*

- Hardwired output: $\pm 10V$, 0 - 20 mA, 4 - 20 mA,
- Serial output (RS232/485) port
- Modbus protocol



MP48 GPS: *Dedicated board for GPS synchronization*

- Error estimate of 1/10 ms
- Serial ports
- Ethernet port
- NTP Protocol

MP48 S: to return a series of diagnostic and operating information through:

- Diagnostic LEDs
- Voltage free terminals to remote information and/or as logic inputs/output.
- 1 Serial (RS232/485) port
- Modbus interface



POWER SUPPLY

- AC voltage from 90 to 260 Vac
- DC voltage from 18 to 132 Vdc

KEY FEATURES

- Modular architecture to connect intelligent field devices (PLC, Controllers, IED, etc.) through standard protocols
- Mechanical solution: Eurocard 2 boards installed in standard 19" racks
- Data buffering to prevent data loss during a network fault and to reduce connection costs in the dial-up network
- Clock synchronization, using NTP network protocol. MP48 as master clock for the whole Scada network
- High performance in data gathering: millisecond event resolution
- Communication via dedicated cable networks, switched networks, radio, fiber, WiFi, GSM / GPRS, Frame Relay
- Standardized communication protocols:
 - IEC 60870-5-101
 - IEC 60870-5-104
 - IEC 60870-5-103
 - IEC 61850
 - Modbus
- Multiple connections to supervision centers using different communication protocols
- Master-slave configuration
- Web server functionality
- Control logic implementation, according to IEC 61131 standard

Application Fields

MP48 is a real-time data acquisition and control system for Electric Utilities, Water Plants, Oil & Gas and Industrial Applications, when the geographical allocation of the plants requires functions distribution and a centralized unit to supervise all plants information. As a dependable and cost-efficient technology, MP48 transforms “plants, substations and other facilities” into valuable sources of information for the enterprise.

ENERGY:



Reliable control system for substation automation, which carries out EMS functions such as load shedding, system stability, frequency/power regulation and fault conditions monitoring.

INDUSTRY:



Real-time control system for oil and gas pipeline automation, that meets customer's needs managing pumping stations, block valves and level tanks.

WATER:



Integrated management of water and wastewater systems. The remote control refers to lifting equipment for sewage systems, supply and distribution centers and water purification.

Our Mission :

Feed the human society transformation - individuals, community and enterprise – by investing in knowledge and technologies to be able to deliver leading edge application and solutions enabled by interoperable next generation network.

We implement industrial and ICT projects through the integration of systems, products, technologies and networks, together with technical and organizational consulting, specialized services and training.

A rich product portfolio is continuously developed in compliance with the most advanced standards and adopted in a wide range of application, making able our customers to make capital on business expectations.

The integrated approach in design and project development increases synergies and mutual reinforcement, enabling the offer of global solutions for the markets of Energy , Transport, Telecommunications and for the “Smart world”.

