

Global limits of the RTU model RTU587

Maximum number of points: 65536

This limit includes all the physical, logical, IED and communications points.

Inputs and output limits (I/O) depending on the CPU model

CPU model	Ports for specific use	Maximum limit of I/O cards and signals
CPURTUD4 4 serial ports 1 ethernet port	1 serial port for SCADA	I/O ports: 3 I/O cards for serial port: 16 I/O cards: 48 Digital inputs with TED32: 1536 Digital outputs with TSR16: 768 Digital outputs with TSR8: 384 Analog inputs with TEA8A: 384 Analog outputs with TSA4: 192
CPURTUD12 12 serial ports 1 ethernet port	1 serial port for SCADA 1 ethernet port for SCADA 1 port for GPS	I/O ports: 10 I/O cards for serial port: 16 I/O cards: 160 Digital inputs with TED32: 5120 Digital outputs with TSR16: 2560 Digital outputs with TSR8: 1280 Analog inputs with TEA8A: 1280 Analog outputs with TSA4: 640
CPURTUD12 with accessory ETHACPU 12 serial ports 2 ethernet port	1 serial port for SCADA 1 ethernet port for SCADA 1 port for GPS	I/O ports: 10 I/O cards for serial port: 16 I/S cards: 160 Digital inputs with TED32: 5120 Digital outputs with TSR16: 2560 Digital outputs with TSR8: 1280 Analog inputs with TEA8A: 1280 Analog outputs with TSA4: 640

It is possible to add more serial ports to the CPURTUD12 in modules of 4 or 8.

More ethernet ports can be added.

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Calculus basis

Each serial port can manage a bus of up to 16 different or identical I/O cards.

TED32 includes 32 digital inputs

TSR16 includes digital outputs

TSR8 includes 8 digital outputs

TEA8A includes 8 analog inputs

TSA4 includes 4 analog outputs

Limits and data of the CPURTU

No moving parts

CPU: NS Geode, GX1-300, 32 bits, 300 Mhz AMD

RAM static: 32 to 512 Mb, standard model: 32 Mb

FlashEprom: 32 to 4096 Mb, standard model: 32 Mb

Applications and limits of the serial ports

Each serial port of the CPURTU can be used for any of the communications of the RTU such as SCADA, I/O modules, IED, GPS, etc.

Each serial port can be assigned to any of the protocols included in the configuration.

Maximum number of communication ports with SCADA: all the available according to the model of CPURTU.

Maximum number of communications ports with I/O modules: all the available according to the model of CPURTU.

Maximum distance of the I/O modules to the CPURTU

The I/O bus is Rs485, the distance depends on the speed and transport technology of the channel.