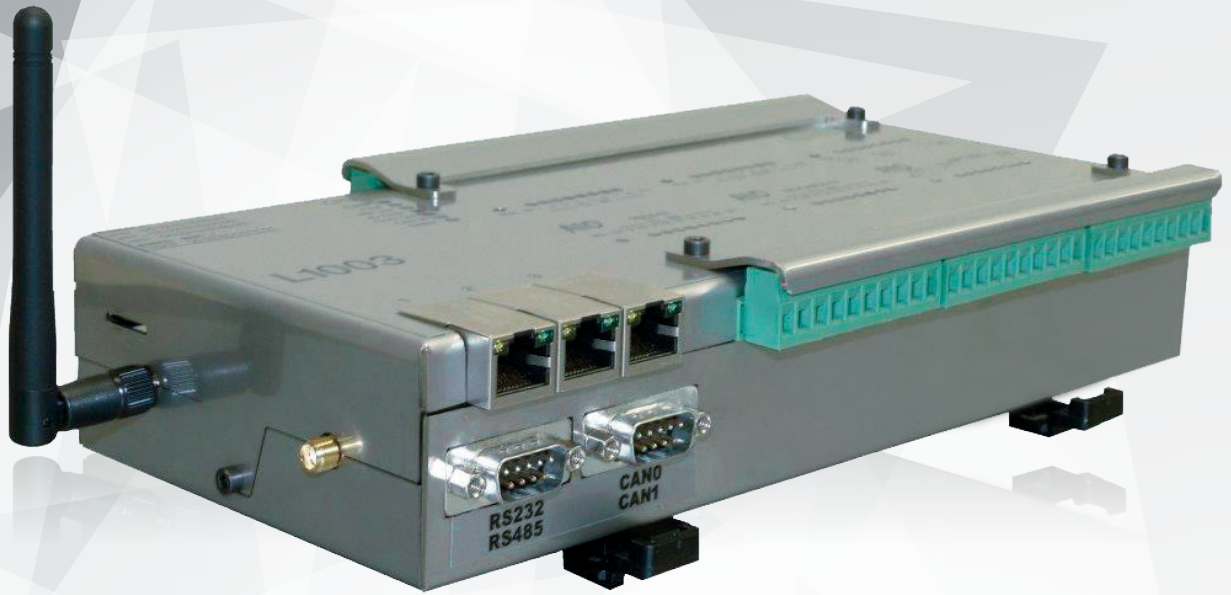


L1003



The L1003 controllers control communications, GUI interfaces, modular I/Os and universal field buses in industrial environments.

Their functional architecture is based on a structure with two processors; One with Linux for managing applications and middleware, the other with a real time kernel optimised for managing industrial I/Os. This task separation guarantees excellent performance and reactivity.

✔ Communication Functions:

The main processor manages 3 Ethernet ports and a WiFi module. Giving a total of 4 independent IP channels. Each one of these channels can be controlled programmatically. It is therefore possible to manage the communication environment and close the unused IP ports, then reactivate one or several for a precise reason. For example, when an operator on a remote site needs access, the central processor remotely activates the WiFi port as an access port so that the remote user can use their smartphone to obtain the data they need.

Graphical User Interface Functions:

The main processor has an HDMI full HD output, 2 USB ports and an audio interface including sound and microphone. Just add a screen and keyboard to use the L1003 as a local PC.

Industrial I/O Functions:

The L1003 controllers can contain 3 industrial I/O modules that can be chosen from the modular AIO System range comprising of 50 different modules.

Fieldbus Function:

The L1003 controller is equipped with four communication buses: an RS232 link, a RS485 link and 2 CAN links.

L1003

Industrial PLC



Technical characteristics:

- i.MX536 Processor
- 1GB DDRAM Memory
- 64GB Mass storage eMMC
- Micro-SD removable Mass storage
- 3 x Ethernet ports (with state LEDs)
- 2 x USB ports (micro B)
- Full HD video output (HDMI)
- Wifi (Access Point, client or ad'hoc mode)
- 1 x RS232 (RX, TX, RTS, CTS)
- 1 x RS485 half-duplex Modbus RTU or other
- 2 x CAN
- 3 axes accelerometer
- GPS

Real time controller for I/O modules

Power: 24V DC on 5.08mm 3 point terminal

Average consumption: 250mA / 24V DC

Maximum consumption: depends on the I/O modules installed

Physical dimensions: 247x113x47mm (LxHxP)

Working temperature: -40°C +85°C

Mountable on 35 mm DIN rail

Applied standards: EN 61131-2: industrial programmable controllers

Industrial I/O modules available: (Partial list)

- 8DI/4R, 8 x Digital inputs & 4 x relays NO
- 8DI/8R, 8 x Digital inputs & 8 x relays NO (1 common for 4 relays)
- 8DO/8D, 8 Digital outputs & 8 Digital inputs
- 16DI, 16 x Digital inputs
- 16DO, 16 x Digital outputs
- 8R, 8 x Relay outputs NO (dry contact)
- 16R, 16 x Relay outputs NO (1 common for 4 relays)
- 10DI-AC1, 10 x 110V AC Digital inputs
- 10DI-AC2, 10 x 220V AC Digital inputs
- 4AO-12x, 4 x 12 bit analogue outputs (x = C:4mA-20mA, x = V:0-10V)
- 4AO-8AIx, 4 x 8 bit analogue outputs & 8 x 10/12 bit analogue inputs
- 16AI-10x, 16 x 10 bit analogue inputs (x = C:4mA-20mA, x = V:0-10V)
- 16AI-12x, 16 x 10 bit analogue inputs (x = C:4mA-20mA, x = V:0-10V)
- 6PT-24, 6 x 24 bit PT100/1000 inputs
- 10TC-24, 10 x 24 bit thermocouple inputs
- 4CFR-24, 4 x 24 bit rapid thermocouple inputs
- 4CPT-16, 4 x 16 bit 1 MHz counter inputs
- 2CI-32A, 2 x 24V DC Incremental coder inputs
- 2CI-32B, 2 x 5V DC Incremental coder inputs
- 2SSI, 2 x SSI absolute coder inputs
- 1MPP, 1 x Stepper motor controller
- 1PWM, 1 x 24 bit PWM controller