



P6

PLC Macq of the sixth generation

The P6 is based on a 19" rack with a backplane that contains two CAN busses for IO communication and power supply distributions. Each slot has a geographical address that allows automatic detection of the cards. The first slot is dedicated to the Link card. The 16 remaining slots can contain CPUs, IO Cards and Power Supplies

Link card

- PIC 32 processor.
- 100 Mhz Ethernet with 2 ports on an on-board switch to communicate with the CPU and other Link Cards.
- Access the main CAN bus to interrogate the IO cards
- Can be equipped with a piggyback containing two isolated RS232 or RS485 serial lines

CPU Card

- i.MX6 1Ghz dual core processor (ARM)
- 1Gb RAM DDR3
- 2Mb SRAM with battery backup
- 4Gb on-board eMMC flash
- Slot for flash SD card
- Linux operation system
- Gigabit Ethernet (for communication with SCADA)
- 100 Mhz Ethernet with 3 ports on an on-board switch to communicate with the Link Card or other PLCs.
- PCIe minicard slot (for Wi-Fi and 4G modem)
- Real time clock
- Can be equipped with a piggyback containing two isolated RS232 or RS485 serial lines
- 1500V isolation
- Access to both CAN busses.
- A virtual machine executes the PLC code that conforms to IEC 61131-3.

The P6 CPU can link to 99 racks with the Link cards. This allows 99 times 16 IO cards each with 4 or 8 analogue or digital in- or output channels.

10 CARDS

- Access to one CAN bus (could in future be extended to access to both busses)
- Have an independent watchdog
- All channels are independent (two wires, no common) and isolated (1500V) from each other and the backplane.

POWER SUPPLY

- Power Supply converts 240AC to 24 VDC.
- Two Power Supplies can be used redundantly.
- The link card generates 12V with a DC/DC that is used for the isolated parts.
- IO cards exists in powered version that use their own supply