

Main

Range of product	Modicon Premium Automation platform
Product or component type	Double-format PL7 processor
Software designation	PL7 Junior/Pro

Complementary

Number of racks	8 12 slots 16 4/6/8 slots
Number of slots	<= 128
Discrete I/O processor capacity	1024 I/O
Analogue I/O processor capacity	80 I/O
Number of application specific channel	<= 24
Number of process control channel	<= 10 up to 30 simple loops
Integrated connection type	Non isolated serial link 2 female mini DIN 19.2 kbit/s Fipio manager (127 agents) SUB-D 9
Communication module processor	4 AS-Interface bus modules 1 network module 1 fieldbus module (none if CANopen used) 1 CANopen bus module
Memory description	PCMCIA card 2688 Kwords additional data storage PCMCIA card 160 Kwords program Internal RAM (without PCMCIA card) 64 Kwords program and data Internal RAM (with PCMCIA card) 64 Kwords data
Maximum size of object areas	8132 %Mi located internal bits 32 %KWi constant words located internal data 30.5 %MWi internal words located internal data
Application structure	1 fast task 1 master task 64 event tasks
Execution time per instruction	2.6 µs floating points without PCMCIA card 2.6 µs floating points with PCMCIA card 0.42 µs word or fixed-point arithmetic with PCMCIA card 0.25 µs word or fixed-point arithmetic without PCMCIA card 0.21 µs Boolean with PCMCIA card 0.19 µs Boolean without PCMCIA card
Number of instructions per ms	4.76 Kinst/ms 100 % Boolean without PCMCIA card 3.7 Kinst/ms 100 % Boolean with PCMCIA card 3.57 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card 2.5 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card
System overhead	1.2 ms master task 0.35 ms fast task
Marking	CE
Local signalling	1 LED yellow activity on the terminal port (TER) 1 LED red processor or system fault (ERR) 1 LED red I/O module or configuration fault (I/O) 1 LED red activity on Fipio bus (FIP) 1 LED green processor running (RUN)
Current consumption	820 mA 5 V DC

Module format	Double
Product weight	0.56 kg

Environment

Standards	73/23/EEC 89/336/EEC 92/31/EEC 93/68/EEC CSA 22-2 No 142 CSA 22-2 No 213 Class I Division 2 Group A CSA 22-2 No 213 Class I Division 2 Group B CSA 22-2 No 213 Class I Division 2 Group C CSA 22-2 No 213 Class I Division 2 Group D IEC 61131-2 UL 508
Product certifications	ABS BV DNV GL LR RINA RMRS
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	5...95 % without condensation for storage 10...95 % without condensation for operation
Operating altitude	0...2000 m
Protective treatment	TC
IP degree of protection	IP20
Pollution degree	2

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks



(1) With screw terminal block modules.

(2) Maximum depth for all types of modules and their associated connectors.