



Main

Range of product	Modicon Premium Automation platform
Product or component type	Unity processor
Software designation	Unity Pro

Complementary

Concept	Transparent Ready
Number of racks	8 12 slots 16 4/6/8 slots
Number of slots	<= 128
Discrete I/O processor capacity	2040 I/O
Analogue I/O processor capacity	512 I/O
Number of application specific channel	<= 64
Number of process control channel	<= 30 up to 90 simple loops
Integrated connection type	Non isolated serial link female mini DIN RS485 19.2 kbit/s USB port 12 Mbit/s Ethernet TCP/IP RJ45
Port Ethernet	10BASE-T/100BASE-TX
Communication module processor	8 5 3 1
Memory description	PCMCIA card 16384 kB additional data storage Internal RAM (without PCMCIA card) 2048 kB program and data Internal RAM (with PCMCIA card) 7168 kB program Internal RAM (with PCMCIA card) 2048 kB data
Maximum size of object areas	Unlimited (elementary and derived data) unlocated internal data Unlimited (DFB and EFB function blocks) unlocated internal data 64 %KWi constant words located internal data 32768 %Mi located internal bits 128 %MWi internal words located internal data
Application structure	1 fast task 1 master task 128 event tasks 32 timers 4 auxiliary tasks
Execution time per instruction	0.48...0.56 µs floating points without PCMCIA card 0.48...0.56 µs floating points with PCMCIA card 0.045...0.06 µs word or fixed-point arithmetic without PCMCIA card 0.045...0.06 µs word or fixed-point arithmetic with PCMCIA card 0.0375...0.045 µs Boolean without PCMCIA card 0.0375...0.045 µs Boolean with PCMCIA card
Number of instructions per ms	20.26 Kinst/ms 100 % Boolean without PCMCIA card 20.26 Kinst/ms 100 % Boolean with PCMCIA card 14 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card 14 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card
System overhead	1 ms master task 0.07 ms fast task
Marking	CE

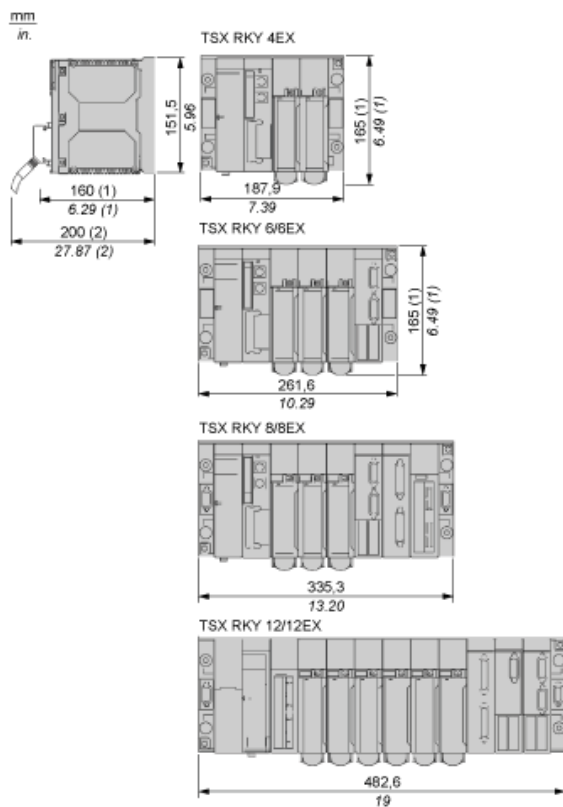
Local signalling	1 LED yellow transmission activity (TX) 1 LED yellow reception activity (RX) 1 LED yellow Ethernet link diagnostics (STS) 1 LED yellow activity on TER or AUX terminal port (TER) 1 LED red processor or system fault (ERR) 1 LED red I/O module or configuration fault (I/O) 1 LED red Ethernet TCP/IP port fault (ERR) 1 LED red collision detection (COL) 1 LED green processor running (RUN) 1 LED green Ethernet TCP/IP port ready (RUN)
Current consumption	1880 mA 5 V DC
Module format	Double
Product weight	0.61 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	Conformal coating Humiseal 1A33 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.