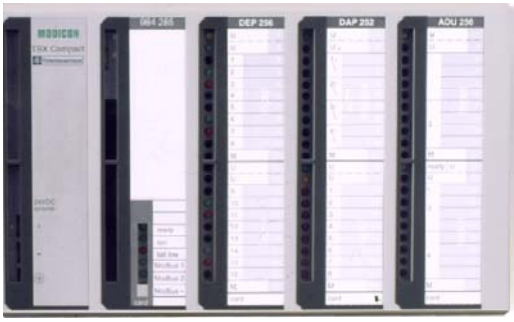
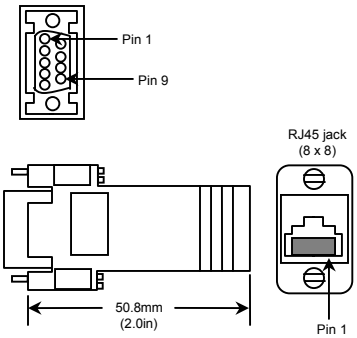
Data Bulletin

MODICON® COMPACT™ PCE984258 PROCESSOR



Programming cable pinout information:

110XCA20300 9-pin Female Adapter



CPU			PC
RJ45 Connector			9-pin D-shell
DTR	1	1	
TXD	3	2	RXD
RXD	4	3	TXD
DSR	2	2	DTR
GND	5	5	GND
		6	DSR
CTS	7	7	RTS
RTS	6	8	CTS
		9	RI
Cable Shield	8	cable of the connector	

Backplanes are ordered separately.

ASHDTA200	5 slots, primary (CPU)
ASHDTA201	5 slots
ASHDTA202	2 slots

Front covers are ordered separately.

043507936	2 slot cover
043507935	5 slot cover

Cables are ordered separately.

110XCA28201	RS-232 communication cable, 3 ft
110XCA28202	RS-232 communication cable, 10 ft
110XCA28203	RS-232 communication cable, 20 ft

General Description

The Compact Automation Platform processors use flash memory for the operating system and command set storage. This nonvolatile memory provides cost and time savings upgrades on site instead of replacing EEPROMs or memory assemblies. Only one file needs to be downloaded to the processor.

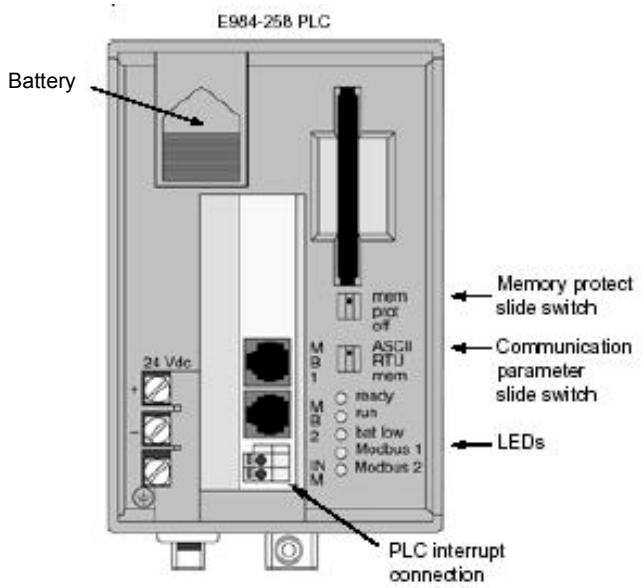
The application program is stored in battery-backed RAM and/or internal Flash RAM. The battery is located on the front of the module and can be replaced without loss of data during operation.

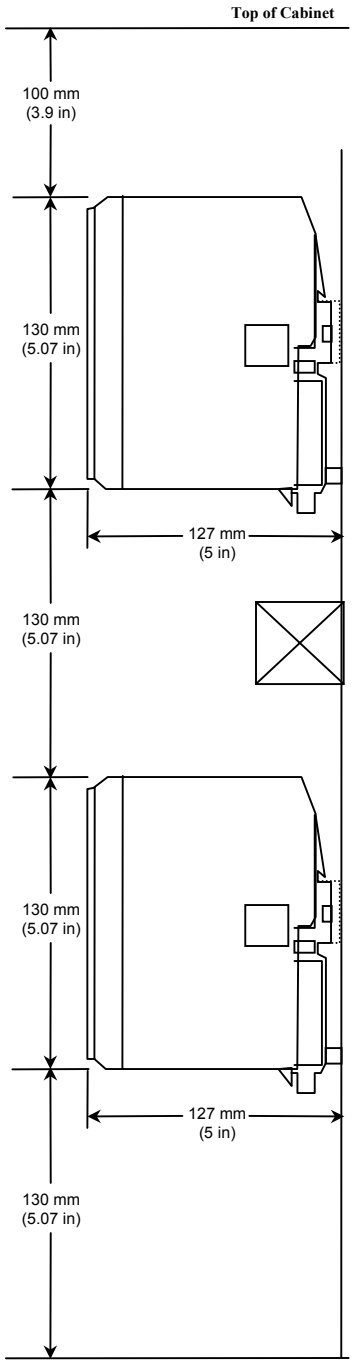
The PCE984258 processor is equipped with two Modbus® ports for both data transfer and programming. Two slide switches on the front of the processor provide simplified user control of key functions. The memory protection switch prevents programming devices or other input devices from overwriting the user program. The Modbus interface switch sets the Modbus data transfer parameters as either ASCII, RTU or other.

Every Compact processor has a real-time clock that provides both the date and time. The PCE984258 provides an input for synchronizing the clock with the Global Positioning System (GPS).

The PCE984258 provides five LED indicators. The amber ready LED indicates that the processor has passed the power-up diagnostic tests and is functional. The amber run LED indicates that the program is started and is solving logic. The red bat low LED indicates that the battery needs replacing (there is a 10-day holdup from the initial indication). The amber Modbus 1 and Modbus 2 LEDs indicate activity on MB1 (Modbus port 1) and MB2 (Modbus port 2) respectively.

Front view:





Specifications	
Concept Logic Memory	220 Kbytes
Proworx NxT Logic Memory	16 Kwords
Flash RAM	1 MB for storing operating system and application (Application may be saved to flash RAM)
Data Memory	32 Kwords
Clock Speed	25 MHz
Logic solve time	0.36 ms/K ladder logic instructions
Local I/O	288 Discrete, 144 Analog
I/O Expansion	256 words (128 in, 128 out)
Input voltage range	16.8 … 30 VDC
Current Consumption	0.5A (typical), (0.9 maximum)
Storage Temperature	-40 to +85 degrees C
Operating Temperature	-40 to 70 degrees C
Relative Humidity	0 … 93% Non-condensing @ 60 degrees C
Weight	1.21 lb (550 g)
Electromagnetic Susceptibility	27 … 500 MHz, 10 V/m (Radiated)
Electromagnetic Surge Withstand	2 kV Transients, 2.5 kV Ringwave
Electromagnetic Fast Transients	+/- 1 kV
Electrostatic Discharge	+/- 8 kV Air, +/- 4 kV Contact
Agency Approvals	UL508, CSA22.2 No. 142, FM Class 1 Div 2 pending
Software Support	Concept™, ProWORX®

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For detailed technical documentation visit:
www.us.telemecanique.com