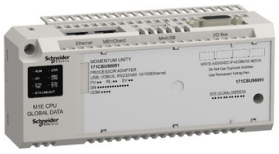
Product data sheet

Specifications



Unity M1E processor - RS232/485 - Ethernet - USB - I/O bus - global data

171CBU98091

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon Momentum automation platform
Product or Component Type	Processor
Product Compatibility	Modicon STB I/O
Integrated connection type	USB port Ethernet

Complementary

Concept	Transparent Ready class B
Web services	Bandwidth monitoring Properties CPU status Ethernet statistics Home pages
Software Designation	Unity Pro
Communication service	Modbus messaging 125 words, 200 I/O message per second Global Data, 2200 I/O message per second Modbus TCP I/O Scanner and Messaging
Processor name	Spear 320s
Word length	32 bit
Supply voltage limits	4.75…5.25 V
Clock frequency	333 MHz
Topology	Multidrop Modbus Star Modbus TCP
Communication port protocol	Modbus RS485/RS232 - 1 RJ45 19200 bps - 2-wire Modbus TCP ETHERNET - 1 RJ45 10/100 Mbps - twisted shielded pairs cable CAT 5E UTP
Method of access	Client/server Master/slave
Control parameter	CRC-32 for Modbus TCP/IP CRC-16 for Modbus
Addressing	1...247 Modbus Unique IEEE global address Modbus TCP
Fail state	Safe I/O mode
Memory description	Program memory IEC 3584 kB Program memory LL984 3584 kB
Register words	26048
I/O limit processor capacity	2048 inputs/2048 outputs
Number of devices	32 Modbus

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Exact time for 1 Kinstruction	83 ns
Local signalling	1 LED (green) for processor running (RUN) 1 LED (red) for processor or system fault (ERR) 1 LED (red) for I/O module fault (I/O) 1 LED (yellow) for channel 0 operating (CH0) 1 LED (green) for data rate (ETH 100) 1 LED (green) for data rate (ETH LINK) 1 LED (green) for status of Ethernet network (ETH STS)
Marking	CE
Current consumption	500 mA 5 V DC
Module format	Standard
Product mounting	35 mm symmetrical DIN rail
Height	2.4 in (60.6 mm)
Width	5.7 in (144 mm)
Depth	2.11 in (53.47 mm)
Product Weight	0.359 lb(US) (0.163 kg)

Environment

Material	Lexan
Dielectric strength	0 V not isolated RS485/RS232 5000 V for 1 minute ETHERNET
Product Certifications	C-tick FM
Standards	UL 508 CSA C22.2 No 142 IEC 61131-2
IP degree of protection	IP20
Shock resistance	15 gn 11 ms sinusoidal vibrations
Resistance to electrostatic discharge	6 kV contact IEC 61131-2 zone B 6 kV contact IACS E10 8 kV on air IEC 61000-4-2
Resistance to electromagnetic fields	13.7 V/m (15 V/m) 80...2700 MHz IEC 61000-4-3
Ambient Air Temperature for Operation	32…140 °F (0…60 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Relative humidity	5…96 %
Operating altitude	<= 6561.68 ft (2000 m)

Ordering and shipping details

Category	US1PC3118206
Discount Schedule	PC31
GTIN	3595864171401
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	2.953 in (7.500 cm)
Package 1 Width	4.409 in (11.200 cm)
Package 1 Length	8.071 in (20.500 cm)
Package weight(Lbs)	8.466 oz (240.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	5.267 lb(US) (2.389 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	E618c0ab-f100-4cee-8aef-090f73ce1a54
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer

Lifetime extension

Repair	No

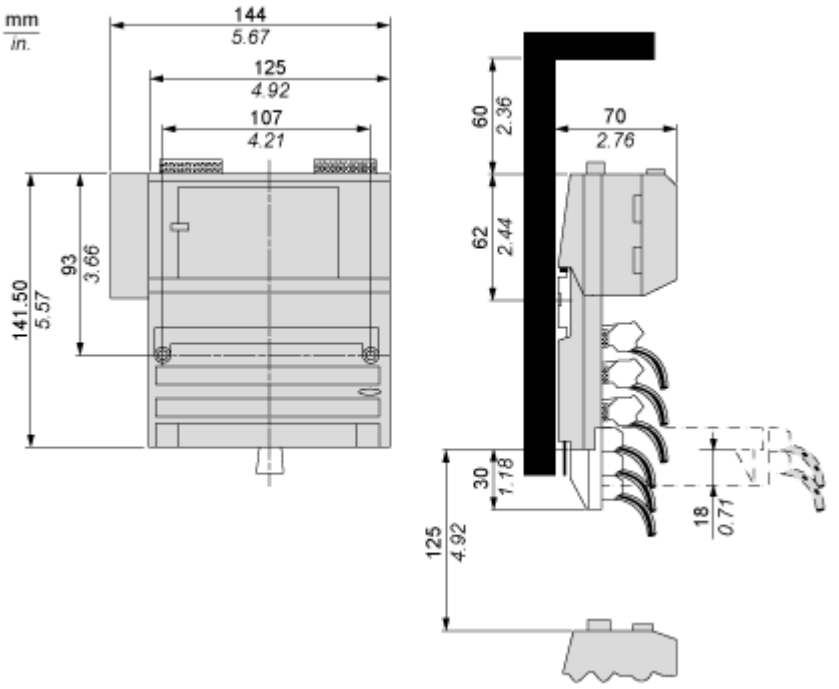
Use Again

Repack and remanufacture

Take-back	No

Dimensions Drawings

Processor and Option Adapter on a Typical Base



Mounting and Clearance

Mounting on a Wall

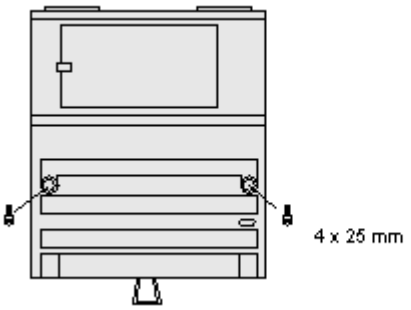
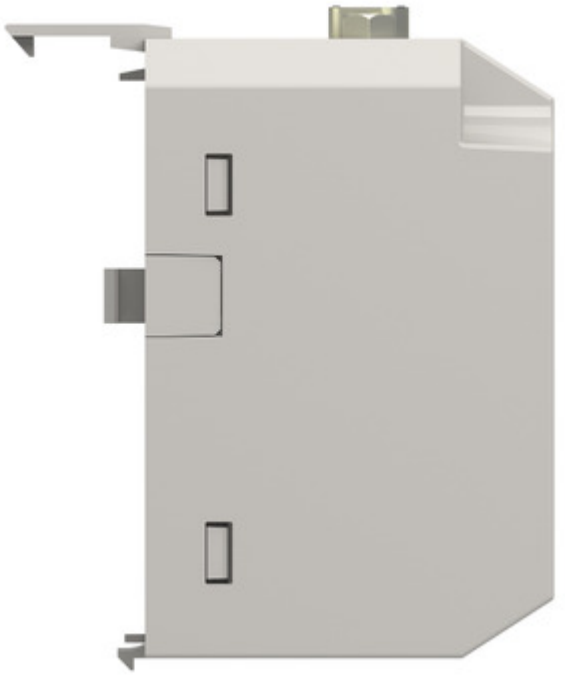
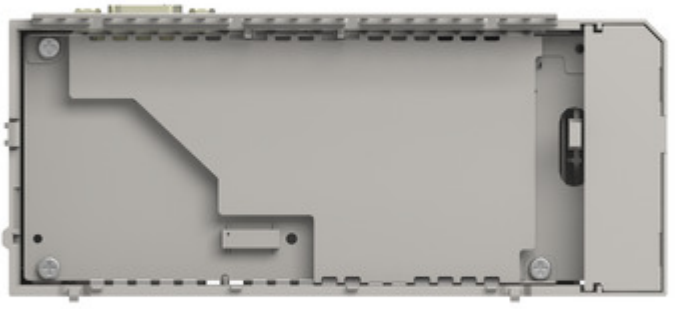


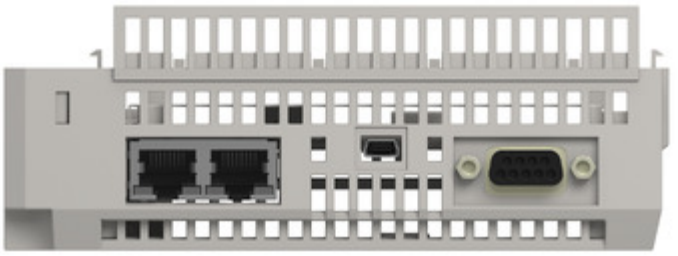
Image of product / Alternate images

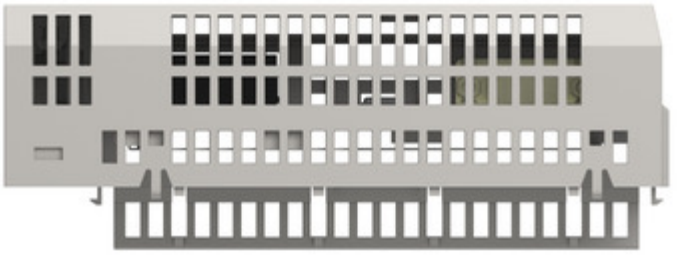
Alternative

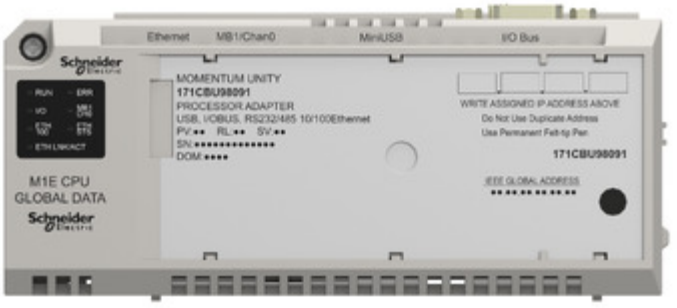











Ethernet
MB1/Chan0
MiniUSB
I/O Bus
Schneider Electric
RUN
ERR
I/O
MB1 CHN
ETH LNK/ACT
M1E CPU
GLOBAL DATA
Schneider Electric
MOMENTUM UNITY
171CBU98091
PROCESSOR ADAPTER
USB, I/OBUS, RS232/485 10/100Ethernet
PV:** RL:** SV:**
SN:**********
DOM:****
WRITE ASSIGNED IP ADDRESS ABOVE
Do Not Use Duplicate Address
Use Permanent Felt-tip Pen
171CBU98091
IEEE GLOBAL ADDRESS
::**:**:**:**