Product data sheet

Specifications

Unity M1 processor - RS232/485 - USB - I/O bus

171CBU78090

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon Momentum automation platform
Product or Component Type	Processor
Integrated connection type	USB port

Complementary

Concept	Transparent Ready class B
Web services	Home pages Properties CPU status
Software Designation	Unity Pro
Communication service	Modbus messaging 100 words, 200 I/O message per second
Processor name	Spear 320s
Word length	32 bit
Supply voltage limits	4.75…5.25 V
Clock frequency	333 MHz
Topology	Multidrop Modbus
Communication port protocol	Modbus RS485/RS232 - 1 RJ45 19200 bps - 2-wire
Method of access	Master/slave
Control parameter	CRC-16 for Modbus
Addressing	1...247 Modbus
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
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 (yellow) for channel 1 operating (CH1)
Marking	CE
Current consumption	500 mA 5 V DC
Module format	Standard

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

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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)
Net Weight	0.351 lb(US) (0.159 kg)

Environment

Material	Lexan
Dielectric strength	0 V not isolated RS485/RS232 5000 V for 1 minute RS485
Product Certifications	C-tick FM
Standards	EN/IEC 61131-2 CSA C22.2 No 142 UL 508
IP degree of protection	IP20
Shock resistance	15 gn 11 ms sinusoidal vibrations
Resistance to electrostatic discharge	6 kV contact EN/IEC 61131-2 zone B 6 kV contact IACS E10 8 kV on air EN/IEC 61000-4-2
Resistance to electromagnetic fields	13.7 V/m (15 V/m) 80...2700 MHz EN/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	3595864171388
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.95 in (7.500 cm)
Package 1 Width	4.37 in (11.100 cm)
Package 1 Length	8.07 in (20.500 cm)
Package weight(Lbs)	8.325 oz (236.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)

Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	5.234 lb(US) (2.374 kg)

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 ›
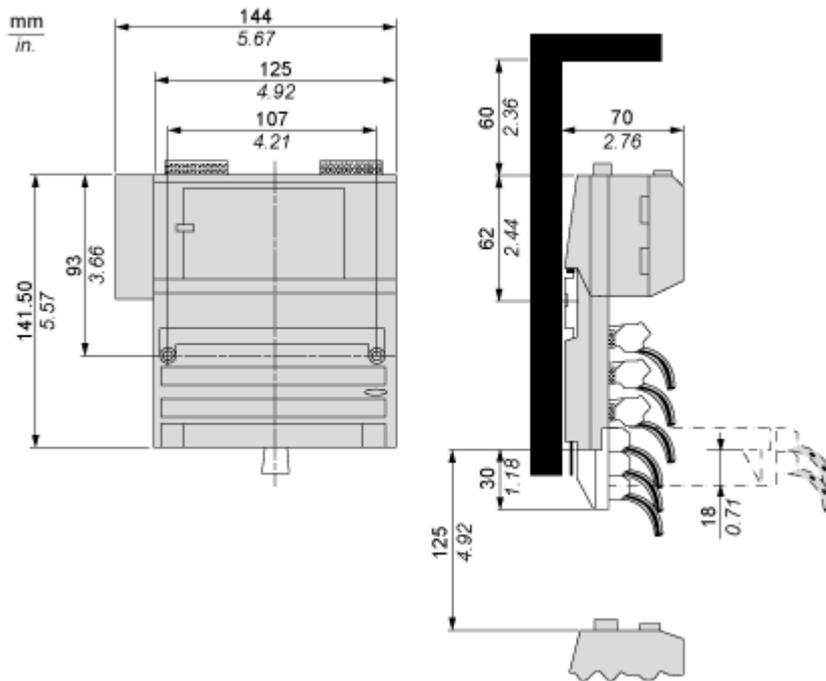
How we assess product sustainability ›

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
SCIP Number	**E618c0ab-f100-4cee-8aef-090f73ce1a54**
REACh Regulation	**REACh Declaration**
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 Again

Repack and remanufacture

Take-back	**No**
WEEE	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

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Dimensions Drawings

Processor and Option Adapter on a Typical Base

Mounting and Clearance

Mounting on a Wall

4 x 25 mm