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



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

Local distributor code:

400938565

171CBU78090

EAN Code: 3595864171388

Main

Range of product	Modicon Momentum automation platform	
Product or component type	Processor	
Integrated connection type	USB port	

Complementary

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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	4.755.25 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	1247 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 at 5 V DC	
Module format	Standard	

Product mounting	35 mm symmetrical DIN rail	
Height	60.6 mm	
Width	144 mm	
Depth	53.47 mm	
Net weight	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 during 11 ms sinusoidal vibrations	
Resistance to electrostatic	6 kV contact conforming to EN/IEC 61131-2 zone B	
discharge	6 kV contact conforming to IACS E10	
	8 kV on air conforming to EN/IEC 61000-4-2	
Resistance to electromagnetic fields	15 V/m 802700 MHz conforming to EN/IEC 61000-4-3	
Ambient air temperature for operation	060 °C	
Ambient air temperature for storage	-4085 °C	
Relative humidity	596 %	
Operating altitude	<= 2000 m	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.500 cm
Package 1 Width	11.100 cm
Package 1 Length	20.500 cm
Package 1 Weight	236.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.374 kg

Logistical informations

Country of origin

Contractual warranty

Warranty

27 Mar 2025

18 months



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

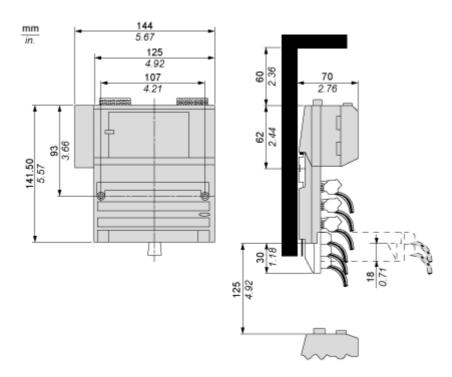
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	E618c0ab-f100-4cee-8aef-090f73ce1a54
REACh Regulation	REACh Declaration

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

Dimensions Drawings

Processor and Option Adapter on a Typical Base



Product datasheet

171CBU78090

Mounting and Clearance

Mounting on a Wall

