

Product data sheet

Specifications



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

171CBU98091

Product availability: Non-Stock - Not 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 | for processor running (RUN) 1 LED (green) for processor or system fault (ERR) 1 LED (red) for I/O module fault (I/O) 1 LED (red) for channel 0 operating (CH0) 1 LED (yellow) for data rate (ETH 100) 1 LED (green) for data rate (ETH LINK) 1 LED (green) for status of Ethernet network (ETH STS) 1 LED (green) |
| Marking | CE |
| Current Consumption | 500 mA 5 V DC |
| Module Format | Standard |
| Product Mounting | 35 mm symmetrical DIN rail |
| Height | 2.39 in (60.6 mm) |
| Width | 5.67 in (144 mm) |
| Depth | 2.11 in (53.47 mm) |
| Net Weight | 0.36 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 EN/IEC 61131-2 |
| 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 | 13.72 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 | 3595864171401 |
| Returnability | No |
| Country Of Origin | FR |

Packing Units

| | |
|------------------------------|-----|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |

| | |
|------------------------------|------------------------|
| Package 1 Height | 2.95 in (7.500 cm) |
| Package 1 Width | 4.41 in (11.200 cm) |
| Package 1 Length | 8.07 in (20.500 cm) |
| Package 1 Weight | 8.40 oz (238.000 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 | 5.27 lb(US) (2.389 kg) |

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation

[China RoHS declaration](#)

Weee

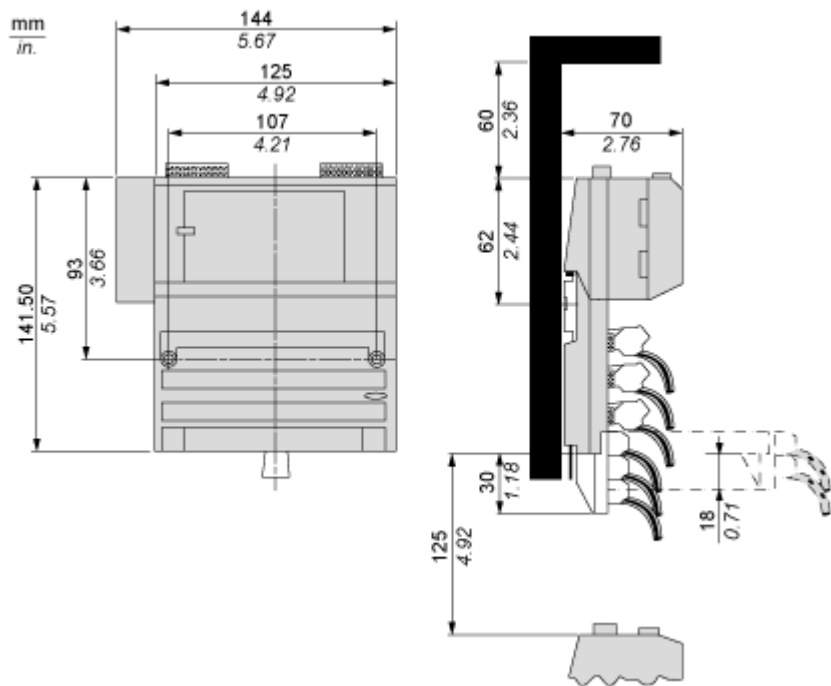
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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

Dimensions Drawings

Processor and Option Adapter on a Typical Base



Mounting and Clearance

Mounting on a Wall

