171CBU98091
Unity M1E processor - RS232/485 - Ethernet - USB - I/O bus - global data

Product availability: Stock - Normally stocked in distribution facility

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Main

<table>
<thead>
<tr>
<th>Range of product</th>
<th>Modicon Momentum automation platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product or component type</td>
<td>Processor</td>
</tr>
<tr>
<td>Product compatibility</td>
<td>Modicon STB I/O</td>
</tr>
<tr>
<td>Integrated connection type</td>
<td>USB port                          Ethernet</td>
</tr>
</tbody>
</table>

Complementary

<table>
<thead>
<tr>
<th>Concept</th>
<th>Transparent Ready class B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web services</td>
<td>Bandwidth monitoring</td>
</tr>
<tr>
<td></td>
<td>Properties</td>
</tr>
<tr>
<td></td>
<td>CPU status</td>
</tr>
<tr>
<td></td>
<td>Ethernet statistics</td>
</tr>
<tr>
<td></td>
<td>Home pages</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Software designation</th>
<th>Unity Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication service</td>
<td>Modbus messaging 125 words, 200 I/O message per second</td>
</tr>
<tr>
<td></td>
<td>Global Data, 2200 I/O message per second</td>
</tr>
<tr>
<td></td>
<td>Modbus TCP I/O Scanner and Messaging</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Processor name</th>
<th>Spear 320s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Word length</td>
<td>32 bit</td>
</tr>
<tr>
<td>Supply voltage limits</td>
<td>4.75…5.25 V</td>
</tr>
<tr>
<td>Clock frequency</td>
<td>333 MHz</td>
</tr>
<tr>
<td>Topology</td>
<td>Multidrop Modbus</td>
</tr>
<tr>
<td></td>
<td>Star Modbus TCP</td>
</tr>
<tr>
<td>Communication port protocol</td>
<td>Modbus RS485/RS232 - 1 RJ45 19200 bps - 2-wire</td>
</tr>
<tr>
<td></td>
<td>Modbus TCP Ethernet - 1 RJ45 10/100 Mbps - twisted shielded pairs cable CAT 5E UTP</td>
</tr>
<tr>
<td>Method of access</td>
<td>Client/server</td>
</tr>
<tr>
<td></td>
<td>Master/slave</td>
</tr>
<tr>
<td>Control parameter</td>
<td>CRC-32 for Modbus TCP/IP</td>
</tr>
<tr>
<td></td>
<td>CRC-16 for Modbus</td>
</tr>
<tr>
<td>Addressing</td>
<td>1...247 Modbus</td>
</tr>
</tbody>
</table>

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

Apr 23, 2020
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

Exact time for 1 KInstruction
83 ns

Local signalling
Processor running (RUN) 1 LED green)  
Processor or system fault (ERR)  1 LED red)  
I/O module fault (I/O)  1 LED red)  
Channel 0 operating (CH0)  1 LED yellow)  
Data rate (ETH 100)  1 LED green)  
Data rate (ETH LINK)  1 LED green)  
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
18206 - MOMENTUM PROCESSORS,I/O BASES,CONN.

Discount Schedule
PC31

GTIN
00785901860921

Returnability
Yes

Country of origin
FR

Offer Sustainability

Sustainable offer status
Green Premium product

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 Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov

EU RoHS Directive
Pro-active compliance (Product out of EU RoHS legal scope)
<table>
<thead>
<tr>
<th>EU RoHS Declaration</th>
<th>Mercury free</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS exemption information</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>China RoHS Regulation</td>
<td>China RoHS declaration</td>
<td></td>
</tr>
<tr>
<td>Environmental Disclosure</td>
<td>Product Environmental Profile</td>
<td></td>
</tr>
<tr>
<td>Circularity Profile</td>
<td>End of Life Information</td>
<td></td>
</tr>
<tr>
<td>WEEE</td>
<td>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.</td>
<td></td>
</tr>
</tbody>
</table>
Processor and Option Adapter on a Typical Base
Mounting on a Wall

4 x 25 mm