

Modicon™ Unity™ Momentum™ M1E CPU

Catalog Data Sheet



Current M1E



Unity Momentum M1E

| | | Current M1E | | Unity Momentum M1E | |
|-------------------------|----------------------------|----------------------|--|---|--|
| Type | Form Factor | Processor Type | | Top Hat | Top Hat |
| | | Local I/O | | Any Momentum I/O Base | Any Momentum I/O Base |
| Hardware and Interfaces | Processor | CPU | MHz | 33 or 50 MHz | 333 MHz |
| | | Memory | KB | 18 (984 Ladder Logic) / 240 (Concept IEC) | 3,584 |
| | Distributed I/O | Protocol | | I/O Bus | I/O Bus |
| | | Supported Devices | | 64 I/O Bus Slaves | 32 I/O Bus Slaves |
| | Networks | Plant Network Port | | 10 Mb/s Half Duplex RJ45 Ethernet with IO Scanner - 64 Devices | 10/100 Mb/s Auto Duplex RJ45 Ethernet with IO Scanner - 32 Devices |
| | Device Interfaces | Serial Interface | | 1 or 2 Ports depending on CPU. RS232 or RS485-4 Wire May require Option Adapter | 1 Configurable RS232 or RS485-2 Wire |
| | | USB Interface | | Not available | 1 Mini USB Slave - 12 Mb/s Initial Configuration, Programming, Firmware Update |
| | Integrated Features | State RAM Retention | | Option Adapter Required with 2 "AA" Batteries for backup | Embedded State RAM Retention (No battery required) |
| | | Real Time Clock | | Option Adapter Required with 2 "AA" Batteries for backup | Embedded Real Time Clock 5 Day Retention without CPU Power (No battery required) |
| | System Memory | User Logic Memory | KB | 18 (984 Ladder Logic) / 240 (Concept IEC) | 3,584 |
| | | Register Memory | KB | 24 | 128 |
| | Software and Services | Programming Software | IEC | | Concept FBD, ST, LD, IL, SFC |
| 984 Ladder Logic | | | | Supported (Concept, Proworx) | Supported (LL984 Editor) |
| Programming Software | | | | Concept, Proworx NxT, Proworx ³² | Unity Pro S, L, XL |
| Combined Logic | | | | No - IEC logic or 984 Ladder Logic only | Combined IEC and LL984 Editor |
| Application Simulator | | | | Concept, Proworx ³² Emulation | Unity Pro |
| Addressing | | | | 0x, 1x, 3x, 4x | 0x, 1x, 3x, 4x |
| Variables Supported | | | | Yes | Yes |
| Data | | | | 64 KB | 128 KB |
| | Starting Address | | 1 - 400001 | 1 - 400001/%MW1 | |
| Power | Consumption and Supply | | 2.5 watts @ 5Vdc from I/O Base | 2.5 watts @ 5Vdc from I/O Base | |
| Mounting | DIN Rail Mount | | Mounts to the I/O Block, which mounts to DIN Rail. | Mounts to the I/O Block, which mounts to DIN Rail. | |
| | Panel Mount | | I/O Block can be panel-mounted | I/O Block can be panel-mounted | |
| | High Vibration Kit Support | | Yes - 170XTS12000 | Yes - 170XTS12000 | |
| Product | Part Reference | | 171CCC960 / 980 - 20 / 30 | 171CBU98090, 171CBU98091 (supports Ethernet Global Data) | |

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