

UC20-M3000**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

With u-control M3000, automation solutions can be perfectly integrated into the IoT. The powerful controller also works as an edge device for providing local information in the network and can be expanded by connecting function modules – ideal for automation and IIoT applications. u-control M4000 offers two additional CPU cores, two additional Ethernet interfaces and more RAM, NV RAM, and flash memory for complex edge computing in automation.

General ordering data

| | |
|------------|----------------------------------------|
| Version | Controller, IP20, AutomationController |
| Order No. | 2839150000 |
| Type | UC20-M3000 |
| GTIN (EAN) | 4064675446101 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|--------|-----------------|------------|
| Depth | 101 mm | Depth (inches) | 3.976 inch |
| Height | 120 mm | Height (inches) | 4.724 inch |
| Width | 80 mm | Width (inches) | 3.15 inch |
| Net weight | 250 g | | |

Probability of failure

| | | |
|------|-----------------------|------------------|
| MTBF | According to Standard | MIL-HDBK-217-FN2 |
| | Ambient temperature | 50 °C |

Connection data

| | | | |
|------------------------------------------------------|----------------------|------------------------------------------------------|----------------------|
| Type of connection | PUSH IN | Wire connection cross section, finely stranded, max. | 1.5 mm ² |
| Wire connection cross section, finely stranded, min. | 0.14 mm ² | Wire cross-section, finely stranded, max. (AWG) | AWG 26 |
| Wire cross-section, finely stranded, min. (AWG) | AWG 16 | Wire cross-section, solid, max. | 1.5 mm ² |
| Wire cross-section, solid, max. (AWG) | AWG 26 | Wire cross-section, solid, min. | 0.14 mm ² |
| Wire cross-section, solid, min. (AWG) | AWG 16 | | |

General data

| | | | |
|----------------------------------------------|-----------------------------------------------|------------|--------|
| Air humidity (operation) | 10% to 95%, non-condensing as per IEC 61131-2 | | |
| Air humidity (storage) | 10% to 95%, non-condensing as per IEC 61131-2 | | |
| Air humidity (transport) | 10% to 95%, non-condensing as per IEC 61131-2 | | |
| Air pressure (operation) | ≥ 795 hPa as per IEC 61131-2 | | |
| Air pressure (storage) | ≥ 700 hPa as per IEC 61131-2 | | |
| Air pressure (transport) | ≥ 700 hPa as per IEC 61131-2 | | |
| Operating temperature installation dependent | Mounting position | horizontal | |
| | Operating altitude, max | 2,000 m | |
| | Operating temperature | min. | -40 °C |
| | | max. | 70 °C |
| | Mounting position | vertical | |
| | Operating altitude, max | 2,000 m | |
| | Operating temperature | min. | -40 °C |
| | | max. | 50 °C |
| | Mounting position | horizontal | |
| | Operating altitude, max | 3,000 m | |
| | Operating temperature | min. | -40 °C |
| | | max. | 60 °C |
| | Mounting position | vertical | |
| | Operating altitude, max | 3,000 m | |
| | Operating temperature | min. | -40 °C |
| | | max. | 50 °C |
| Rail | TS 35 | | |
| UL 94 flammability rating | V-0 | | |

Power supply

| | | | |
|-------------------------------------------------------|---------|------|--|
| Current consumption from I _{sys} , typ. | 116 mA | | |
| Feed current for I _{IN} (input current path) | max. | 10 A | |
| | nominal | 10 A | |
| | min. | 0 A | |

Creation date April 27, 2024 11:57:19 AM CEST

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Technical data

Feed current for I_{IN} (input current path), 10 A max.

| | | |
|--------------------------------------------------|---------|------|
| Feed current for I_{OUT} (output current path) | nominal | 10 A |
| | max. | 10 A |
| | min. | 0 A |

Feed current for I_{OUT} (output current path), max.

Supply voltage for outputs 24 V DC +20 %/ -15 %

Supply voltage system and inputs 24 V DC +20 %/ -15 %

System data

| | | | |
|----------------------------------------|---------------------------|--------------------------|---------------------------------------|
| Configuration interface | USB-C (3.1), MicroSD CARD | Connection type | PUSH IN |
| Engineering tool | u-OS | Interface | 2x Host (USB-A 2.0), 2x 1 Gbps (RJ45) |
| Memory (Flash) | 16 GB | Processor | Dual Core ARM Cortex A53, 1200 MHz |
| Program data memory expansion possible | No | Program data memory size | 2 GB |
| Programming environment | CODESYS | Real-time clock | Battery buffered |
| Type of program data memory | DDR4 | Type of user data memory | eMMC |
| User data memory size | 16 GB | max. number of modules | 64 |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000236 | ETIM 7.0 | EC000236 |
| ETIM 8.0 | EC000236 | ETIM 9.0 | EC000236 |
| ECLASS 9.0 | 27-24-22-07 | ECLASS 9.1 | 27-24-22-07 |
| ECLASS 10.0 | 27-24-22-07 | ECLASS 11.0 | 27-24-22-07 |
| ECLASS 12.0 | 27-24-22-07 | ECLASS 13.0 | 27-24-22-07 |

Approvals

Approvals



| | |
|---------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULusEX) | E223527 |

Downloads

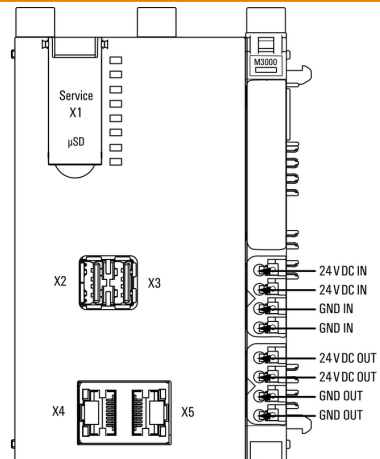
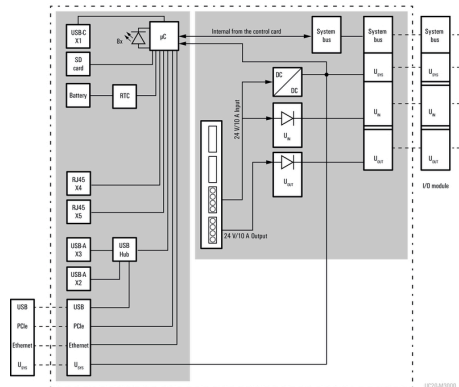
| | |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Engineering Data | Quick start guide – Modbus - Understanding Coils and Register Quick start guide – Function blocks for UR20-3EM-230V-AC CAD data – STEP |
| Product Change Notification | Release notes - u-OS App PROCON-WEB ES |
| Software | Runtime Software – Archived CODESYS Control SL for Weidmueller u-OS Package Compatibility information – Archived u-OS App CODESYS Control SL Runtime Runtime Software – u-OS App CODESYS Control SL Runtime Runtime Software – CODESYS Control SL for Weidmueller u-OS Package |
| User Documentation | u-control MX0000 Manual (English) |
| Catalogues | Catalogues in PDF-format |

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Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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Drawings



UC20-M3000

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Accessories

Accessories



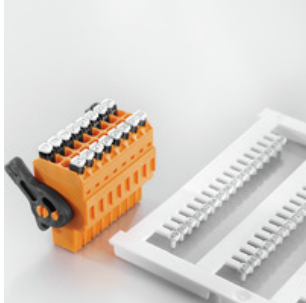
System accessory

Discover a wide range of accessories for your u-remote system - the ideal addition to make your applications even more efficient and flexible.

General ordering data

| | | |
|------------|----------------------------|----------------|
| Type | UR20-EBK-ACC | Version |
| Order No. | 1346610000 | End bracket, , |
| GTIN (EAN) | 4050118151596 | |
| Qty. | 5 pc(s). | |
| Type | UR20-SM-ACC | Version |
| Order No. | 1339920000 | Cover, , |
| GTIN (EAN) | 4050118144727 | |
| Qty. | 20 pc(s). | |

Custom printing



General ordering data

| | | |
|------------|----------------------------|---------------------------------------------------------------------|
| Type | PM 2.7/2.6 MC SDR | Version |
| Order No. | 1323700000 | OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch in |
| GTIN (EAN) | 4050118126761 | mm (P): 3.50 Weidmueller, To customer specification |
| Qty. | 192 pc(s). | |

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Accessories

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|-----------------------------------------------------------|
| Type | DEK 5/8-11.5 MC NE WS | Version |
| Order No. | 1341630000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 |
| GTIN (EAN) | 4050118145946 | Weidmueller, white |
| Qty. | 500 pc(s). | |

USB cable - USB A - USB C

Assembled IE cables



General ordering data

| | | |
|------------|----------------------------|-----------------------------------|
| Type | IE-USB-A-C-2.0M | Version |
| Order No. | 2838380020 | USB cable, USB A, USB C, PVC, 2 m |
| GTIN (EAN) | 4064675444329 | |
| Qty. | 1 pc(s). | |

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www.weidmueller.com**Accessories****Blank****General ordering data**

| | | |
|------------|----------------------------|---------------------------------------------------------------------|
| Type | PM 2.7/2.6 MC NE WS | Version |
| Order No. | 1323710000 | OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch in |
| GTIN (EAN) | 4050118126778 | mm (P): 3.50 Weidmueller, white |
| Qty. | 960 pc(s). | |

Custom printing

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General ordering data

| | | |
|------------|----------------------------|-----------------------------------------------------------|
| Type | DEK 5/8-11.5 MC SDR | Version |
| Order No. | 1341610000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 |
| GTIN (EAN) | 4050118146059 | Weidmueller, To customer specification |
| Qty. | 100 pc(s). | |