

UC20-WL2000-AC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

For modern IoT applications, automation technology needs to be increasingly more powerful and adaptable. u-mation offers a coordinated hardware portfolio designed for the future-proof preparation of your machines and systems. u-control 2000 is one of the most compact and state-of-the-art control systems on the market and is the centrepiece of our hardware portfolio. u-control 2000 forms the basis required for use of our engineering solutions u-create web, studio and IoT. The controllers modular design is based on the remote I/O system u-remote, and allows for needs-based expansion to include other components from the u-mation family.

General ordering data

| | |
|------------|--|
| Version | Controller, IP20, AutomationController, Web-based, u-control 2000 web, integrated engineering tools: u-create web for PLC - (real-time system) & IIoT applications and CODESYS (u-OS) compatible |
| Order No. | 1334950000 |
| Type | UC20-WL2000-AC |
| GTIN (EAN) | 4050118138351 |
| Qty. | 1 pc(s). |

Creation date May 4, 2024 9:09:32 PM CEST

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

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Technical data

Dimensions and weights

| | | | |
|-----------------------------|--------|-----------------|------------|
| Depth | 76 mm | Depth (inches) | 2.992 inch |
| Height | 120 mm | Height (inches) | 4.724 inch |
| Width | 52 mm | Width (inches) | 2.047 inch |
| Mounting dimension - height | 128 mm | Net weight | 232 g |

Connection data

| | |
|--------------------|---------|
| Type of connection | PUSH IN |
|--------------------|---------|

General data

| | | | |
|------|-------|---------------------------|-----|
| 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. | 5,000 mA |
| | nominal | 5,000 mA |
| | min. | 0 mA |
| Feed current for I _{IN} (input current path) , 5 A max. | | |
| Feed current for I _{OUT} (output current path) | min. | 0 mA |
| | nominal | 5,000 mA |
| | max. | 5,000 mA |
| Feed current for I _{OUT} (output current path) , max. | 5 A | |
| Supply voltage for outputs | 24 V DC +20 %/ -15 % | |
| Supply voltage system and inputs | 24 V DC +20 %/ -15 % | |

System data

| | | | |
|-------------------------|---|---|----------------------------------|
| Configuration interface | Micro USB 2.0 | Connection type | 2 x RJ45 plug-in connectors |
| Engineering tool | u-create web, u-OS | Interface | 2x Ethernet TCP/IP, 1x Micro USB |
| Memory (Flash) | 8 GB, 32 GB via microSD | Module type | Controller |
| Processor | Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM | Programming environment | web-based |
| Real-time clock | Battery buffered | Transmission speed backplane bus, max.48 Mbit | |
| 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 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | b2baa72f-7638-44ad-b8eb-76854d0293dc |

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Technical data

Approvals

Approvals



| | |
|---------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |
| Certificate no. (cULusEX) | E223527 |

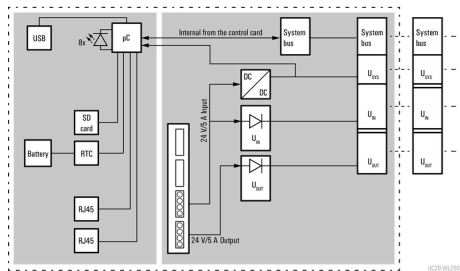
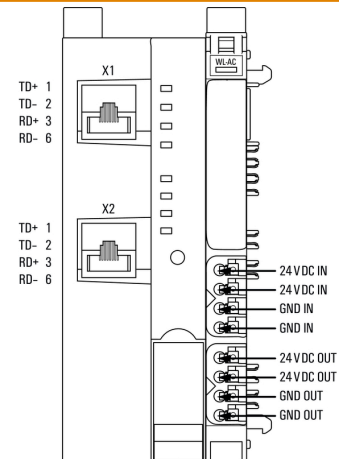
Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | DNV/GL certificate RINA certificate Bureau Veritas - Type Approval Certificate Lloyd's Register - Type Approval Certificate Hazardous Locations - UL Class 1 Division 2 Group ABCD IECEX UL ATEX ABS-American Bureau Of Shipping - Certificate of PDA Declaration of Conformity |
| Engineering Data | CAD data – STEP Quick start guide – Modbus - Understanding Coils and Register Quick start guide – Function blocks for UR20-3EM-230V-AC Application notes – Installing and using Node-RED App on u-OS Setup of Procon Web ES on u-OS Application notes – Setup of Modbus TCP connection in CODESYS on u-OS Application notes – Setup of FTP client in CODESYS Application notes – UC-Codesys NVL in Node-RED Application notes – UR20-1COM-RSxxx-V1 -Setup of Modbus and Serial communication in CODESYS Application notes – Measuring higher voltages and currents with u-remote Application notes – UR20-1COM-RSxxx-V2 -Setup of Modbus and Serial communication in CODESYS Application notes – Use of Node-RED contrib OpcUa |
| Product Change Notification | Release notes - u-OS App PROCON-WEB ES |
| Software | Software – u-link VPN-Client Firmware – Current firmware u-create web Runtime Software – Archived CODESYS Control SL for Weidmueller u-OS Package Compatibility information – Archived u-OS App CODESYS Control SL Runtime Firmware – Archived firmware u-create web Firmware – Downgrade firmware u-OS 2.1.x to u-create web 1.16.1 Firmware – Upgrade firmware u-create web to u-OS Runtime Software – u-OS App CODESYS Control SL Runtime Runtime Software – CODESYS Control SL for Weidmueller u-OS Package |
| User Documentation | u-link Technical User Guide u-control Handbuch (Deutsch) u-control Manual (English) Quick reference / Instruction inlay - u-control web hardware 20210504 Security Advisory - Accidentally open network port in u-controls and IoT-Gateways 20221214 Security Advisory - Multiple IoT and control products affected by JavaScript injection vulnerability Security Advisory - Multiple products affected by CodeMeter Runtime vulnerability |
| Catalogues | Catalogues in PDF-format |

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Drawings**Block diagram****Connection diagram**

**Azure
Certified
Device**

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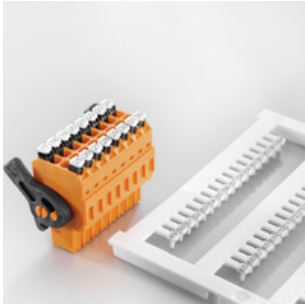
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Accessories

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). | |

Custom printing



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 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). | |

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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). | |
| Type | IE-USB-A-MICRO-1.8M | Version |
| Order No. | 1487980000 | USB cable, USB A, USB Micro, PVC, 1.8 m |
| GTIN (EAN) | 4050118298451 | |
| Qty. | 1 pc(s). | |

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). | |

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Accessories

u-link Remote Access Service



The Weidmüller u-link remote access service offers an easy possibility to securely access ethernet devices in a remote network.

With the u-link VPN Server as the central meeting point server, the VPN clients (service PC and Weidmüller u-link client devices) always connect outbound and thus conform to the typical IT security requirements. Separate database and server instances are used for each u-link customer account (secure client isolation) to ensure data integrity.

Communication between the u-link VPN server and remote clients (service PCs and u-link client devices) takes place via a certificate-protected openVPN connection. The u-link creed is "configuration instead of programming" the use is intuitive and does not require expert knowledge.

Featureset:

- 1-click VPN remote access for service PC's
- easyAccess: web, rdp or vnc connections to remote hosts fully browser based for use with tablet or smartphone
- Organization and Group Management
- Topologies including 3rd party end-devices
- Firmware management: Display of firmware status of all routers and the option of a time-controlled, automated firmware update
- Individual access rights: granular configuration of access rights to devices in the target network
- Extensive event log: Presentation of all activities in the u-link portal with extensive filter and export functions
- Password policy: Increased security through configurable specification of minimum requirements for password quality and validity period

Weidmüller offers the following usage variations and additional options for the u-link Remote Access Service:

Basic version:

- Automatically assigned by registering at u-link.weidmueller.com
- Free use for 6 months, extended to 365 days when registering a new u-link client device
- Full featureset
- Unlimited users
- Max. 50 u-link capable devices (access points to a remote network)
- 1 simultaneous VPN connection
- No data or speed limitations (subject to normal market usage)

Extensions

- Additional 50/100/250/500/1000 or more u-link capable devices
- Additional simultaneous VPN connections
- China-VPN: secure and reliable VPN connection to and from China

General data May 4 2024 9:09:32 PM CEST

| | | |
|------------|---|---------|
| Type | U-LINK-500-DEVICES-1Y | Version |
| Order No. | 2status 20.04.2024 / We reserve the right to make technical changes | |
| GTIN (EAN) | configurable u-link clients on Weidmüller hardware to the basic | |

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| | | |
|------------|----------------------------|---|
| Type | U-LINK-1-CONNECTION-1Y | Version |
| Order No. | 2870130000 | "VPN connection" licence code for u-link Remote Access Service. Can |
| GTIN (EAN) | | be used as an additional VPN connection or to extend the period of a |
| Qty. | 1 pc(s). | VPN connection that has already been activated |
| Type | U-LINK-50-DEVICES-1Y | Version |
| Order No. | 2870090000 | License code for u-link Remote Access Service., Adds 50 additional |
| GTIN (EAN) | | configurable u-link clients on Weidmüller hardware to the basic |
| Qty. | 1 pc(s). | license and extends the period of the basic license accordingly. |
| Type | U-LINK-250-DEVICES-1Y | Version |
| Order No. | 2870110000 | License code for u-link Remote Access Service., Adds 250 additional |
| GTIN (EAN) | | configurable u-link clients on Weidmüller hardware to the basic |
| Qty. | 1 pc(s). | license and extends the period of the basic license accordingly. |
| Type | U-LINK-100-DEVICES-1Y | Version |
| Order No. | 2870100000 | License code for u-link Remote Access Service., Adds 100 additional |
| GTIN (EAN) | | configurable u-link clients on Weidmüller hardware to the basic |
| Qty. | 1 pc(s). | license and extends the period of the basic license accordingly. |
| Type | U-LINK-CNSERVER-1Y | Version |
| Order No. | 2870140000 | License code for u-link Remote Access Service., Allows the use of the |
| GTIN (EAN) | | server in China for a secure and reliable VPN connection to and from |
| Qty. | 1 pc(s). | China. |
| Type | U-LINK-1000-DEVICES-1Y | Version |
| Order No. | 2924220000 | License code for u-link Remote Access Service., Adds 1000 additional |
| GTIN (EAN) | | configurable u-link clients on Weidmüller hardware to the basic |
| Qty. | 1 pc(s). | license and extends the period of the basic license accordingly. |

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). | |