

**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.	<a href="#">1334950000</a>
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
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## General data

Rail	TS 35	UL 94 flammability rating	V-0
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## 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), max.	5 A		
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	<a href="#">DNV/GL certificate</a> <a href="#">RINA certificate</a> <a href="#">Bureau Veritas - Type Approval Certificate</a> <a href="#">Lloyd's Register - Type Approval Certificate</a> <a href="#">Hazardous Locations - UL Class 1 Division 2 Group ABCD</a> <a href="#">IECEX</a> <a href="#">UL ATEX</a> <a href="#">ABS-American Bureau Of Shipping - Certificate of PDA</a> <a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a> <a href="#">Quick start guide – Modbus - Understanding Coils and Register</a> <a href="#">Quick start guide – Function blocks for UR20-3EM-230V-AC</a> <a href="#">Application notes – Installing and using Node-RED App on u-OS</a> <a href="#">Setup of Procon Web ES on u-OS</a> <a href="#">Application notes – Setup of Modbus TCP connection in CODESYS on u-OS</a> <a href="#">Application notes – Setup of FTP client in CODESYS</a> <a href="#">Application notes – UC-Codesys NVL in Node-RED</a> <a href="#">Application notes – UR20-1COM-RSxxx-V1 -Setup of Modbus and Serial communication in CODESYS</a> <a href="#">Application notes – Measuring higher voltages and currents with u-remote</a> <a href="#">Application notes – UR20-1COM-RSxxx-V2 -Setup of Modbus and Serial communication in CODESYS</a> <a href="#">Application notes – Use of Node-RED contrib OpcUa</a>
Product Change Notification	<a href="#">Release notes - u-OS App PROCON-WEB ES</a>
Software	<a href="#">Software – u-link VPN-Client</a> <a href="#">Firmware – Current firmware u-create web</a> <a href="#">Runtime Software – Archived CODESYS Control SL for Weidmueller u-OS Package</a> <a href="#">Compatibility information – Archived u-OS App CODESYS Control SL Runtime</a> <a href="#">Firmware – Archived firmware u-create web</a> <a href="#">Firmware – Downgrade firmware u-OS 2.1.x to u-create web 1.16.1</a> <a href="#">Firmware – Upgrade firmware u-create web to u-OS</a> <a href="#">Runtime Software – u-OS App CODESYS Control SL Runtime</a> <a href="#">Runtime Software – CODESYS Control SL for Weidmueller u-OS Package</a>
User Documentation	<a href="#">u-link Technical User Guide</a> <a href="#">u-control Handbuch (Deutsch)</a> <a href="#">u-control Manual (English)</a> <a href="#">Quick reference / Instruction inlay - u-control web hardware</a> <a href="#">20210504 Security Advisory - Accidentally open network port in u-controls and IoT-Gateways</a> <a href="#">20221214 Security Advisory - Multiple IoT and control products affected by JavaScript injection vulnerability</a> <a href="#">Security Advisory - Multiple products affected by CodeMeter Runtime vulnerability</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

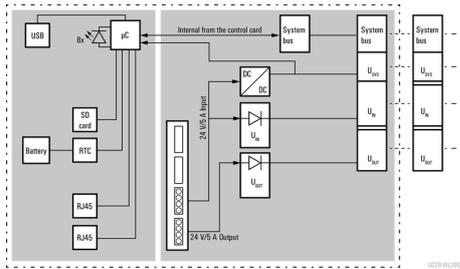
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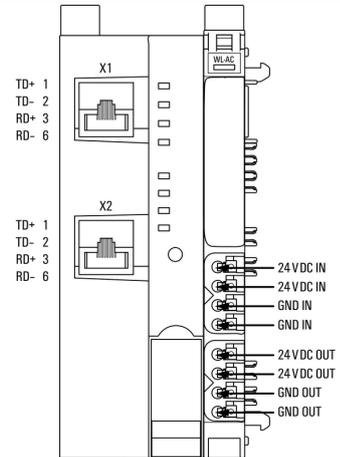
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**Drawings**

**Block diagram**



**Connection diagram**



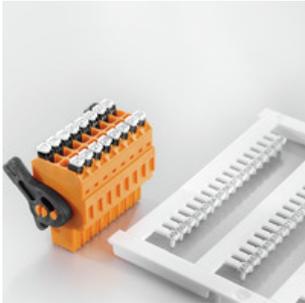
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**Accessories**

**Custom printing**



**General ordering data**

Type	PM 2.7/2.6 MC SDR	Version
Order No.	<a href="#">1323700000</a>	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.	<a href="#">1341610000</a>	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.	<a href="#">1346610000</a>	End bracket, ,
GTIN (EAN)	4050118151596	
Qty.	5 pc(s).	
Type	UR20-SM-ACC	Version
Order No.	<a href="#">1339920000</a>	Cover, ,
GTIN (EAN)	4050118144727	
Qty.	20 pc(s).	
Type	IE-USB-A-MICRO-1.8M	Version
Order No.	<a href="#">1487980000</a>	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.	<a href="#">1341630000</a>	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 ordering data

Type	U-LINK-500-DEVICES-1Y	Version	
Order No.	2status20.04.2024 /	We reserve the right to make technical changes	
GTIN (EAN)		configurable u-link clients on Weidmüller hardware to the basic	

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## Accessories

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

## Blank



## General ordering data

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