u-control - Controls and edge devices

## **Combining OT and IT to perfection**

## Modular controllers for industrial automation and IoT applications

In the context of automation, more and more physical devices are being integrated into networks. This promotes the trend towards convergence of IT and OT systems. The new modular control systems u-control M3000 and M4000 point the way to the future.

## M3000 or M4000 - which controller is right for you?

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



## Approvals:













## Planned approvals:











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## u-control – Controls and edge devices

## UC20-M3000

- Controller for automation and IoT applications
- u-OS integrated
- System supply for 64 u-remote I/O modules
- Additional interface for function modules that can be bayed on the left
- Dual-core CPU, 1.2 GHz
- 2 x 10 A current path

## UC20-M3000



## **Technical data**

### System data

max. number of modules Configuration interface

Processor

Memory (Flash) Real-time clock

Engineering tool

Supply

Supply voltage for inputs

Supply voltage for outputs

Feed current for  $\mathbf{I}_{\mathrm{IN}}$  (input current path) ,  $\max$ 

Feed current for  $I_{\text{\scriptsize OUT}}$  (output current path) ,  $\max$ 

Current consumption  $I_{\rm IN}$  (power segment of the field bus coupler), typ.

Weight

Dimensions H x W x D

## **Ordering data**

Module variants

Note

## **Accessories**

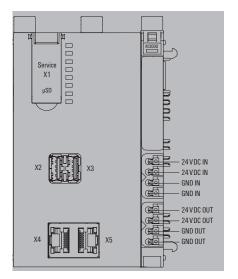
Swievel market
Connection marker for pusher custom printing
Connection marker for pusher neutral
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (material: polyester)
Paper version for Laserprinter
USB cable (USB A to Micro USB)
Replacement parts

	Plug-in connector unit
Control accessories	
	SD Memory Card

PUSH IN		
64		
USB-C (3.1	MicroSD CARD	
Dual Core A	M Cortex A53, 1200 MHz	
16 GB		
Battery buf	red	
u-OS		
24 V DC +2	%/-15 %	
24 V DC +2	%/-15 %	
10 A		
10 A		
116 mA		
588 g		
120 mm / 8	) mm / 101 mm	

Туре	Qty.	Order No.
UC20-M3000	1	2839150000
A termination kit (UC20-EBK-ACC) is included	l in the controll	er package.

Туре	Qty.	Order No.
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-2839150000-SP	5	2884000000
SD-CARD	1	2684400000
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A comprehensive automation portfolio

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## UC20-M3000

- Controller for automation and IoT applications
- u-OS integrated
- System supply for 64 u-remote I/O modules
- Additional interface for function modules that can be bayed on the left
- Quad-Core CPU, 1.2 GHz
- 2 x 10 A current path

## UC20-M4000



## **Technical data**

### System data

max. number of modules

Configuration interface

Processor

Memory (Flash)

Real-time clock

Engineering tool

Supply

Supply voltage for inputs

Supply voltage for outputs Feed current for  $\mathbf{I}_{\mathrm{IN}}$  (input current path) , max.

Feed current for I<sub>OUT</sub> (output current path), max.

Current consumption  $I_{\rm IN}$  (power segment of the field bus coupler), typ.

Weight

Dimensions H x W x D

## **Ordering data**

Module variants

Note

## **Accessories**

Swievel marker Connection marker for pusher custom printing Connection marker for pusher neutral Module marker for custom printing Module marker for neutral Thermotransfer version (Material: Polyester) Thermotransfer version (material: polyester) Paper version for Laserprinter USB cable (USB A to Micro USB)

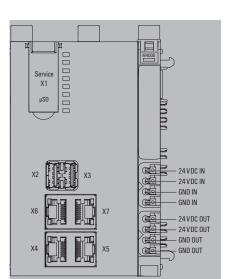
Plug-in connector unit

SD Memory Card

PUSH IN 64  USB-C (3.1), MicroSD CARD Quad Core ARM Cortex A53, 1200 MHz
USB-C (3.1), MicroSD CARD
1 7
Quad Core ARM Cortex A53, 1200 MHz
16 GB
Battery buffered
u-OS
24 V DC +20 %/ -15 %
24 V DC +20 %/ -15 %
10 A
10 A
116 mA
604 g
120 mm / 80 mm / 101 mm

Туре	Qty.	Order No.
UC20-M4000	1	2839160000
A termination kit (UC20-EBK-ACC) is included in the controller package.		

Туре	Qty.	Order No.
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-2839160000-SP	5	2883990000
SD-CARD	1	2684400000
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## Flexible automation of applications

## u-control WL2000 for compact and cost-optimised control

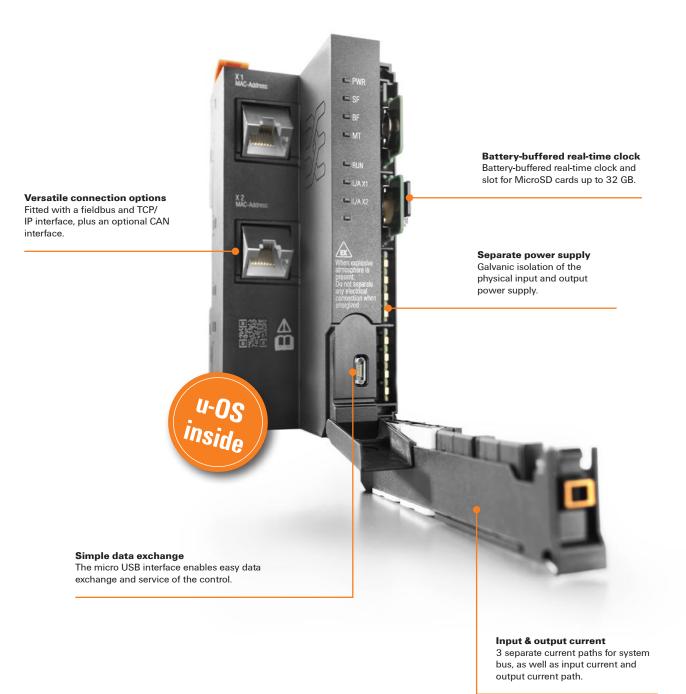
The u-control WL2000 controller is based on the compact design of the u-remote fieldbus coupler - for even greater space saving and maximum flexibility when it comes to the implementation of individual automation solutions. It is compatible with the u-remote range and allows for direct connection of I/O modules. Combined with our open u-OS operating system, it can be utilised for its entire range of applications, and offers an excellent level of customisation. For further information on u-OS, read chapter E.

The u-control WL2000 is equipped with an Ethernet-based fieldbus and one or optionally two TCP/IP interfaces. The controller also has an optional CAN interface. In addition, communication via the Modbus TCP protocol or OPC-UA is also possible over our u-OS operating system and Codesys. u-control WL2000 also has a Dual-Core ARM A9 processor and a USB service interface. In addition to the battery-buffered real-time clock, there is also a plug-in station for a microSD card with up to 32 GB of storage space for your projects.





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## u-control – Controls and edge devices

## UC20-WL2000-AC

- Controller for automation and IoT applications
- Engineering tool u-create web
- System supply of 64 I/O modules
- Dual-Core CPU, 624 MHz
- 2 x 5 A current path

### UC20-WL2000-AC



## **Technical data**

## System data

max. number of modules

Configuration interface Processor

Memory (Flash)

Real-time clock

Engineering tool

Supply voltage for inputs

Supply voltage for outputs

Feed current for  $\mathbf{I}_{\mathrm{IN}}$  (input current path) , max.

Feed current for IOUT (output current path), max.

Current consumption  $I_{IN}$  (power segment of the field bus coupler), typ.

Weight

Dimensions H x W x D

## **Ordering data**

Module variants	
	Automation controller (Web engineering)
Note	

## **Accessories**

Swievel marker Connection marker for pusher custom printing Connection marker for pusher neutral Module marker for custom printing Module marker for neutral Thermotransfer version (Material: Polyester) Thermotransfer version (material: polyester) Paper version for Laserprinter USB cable (USB A to Micro USB) Replacement parts

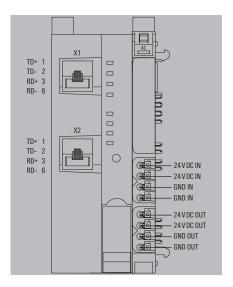
	Plug-in connector un
Control accessories	
	SD Memory Car

Battery for real-time clock

2 x RJ45 plug-in connectors
64
Micro USB 2.0
Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM
8 GB, 32 GB via microSD
Battery buffered
u-create web, u-OS
24 V DC +20 %/ -15 %
24 V DC +20 %/ -15 %
5 A
5 A
116 mA
232 g
120 mm / 52 mm / 76 mm

Туре	Qty.	Order No.
UC20-WL2000-AC	1	1334950000
A termination kit (UC20-EBK-ACC) is included in the controller package.		

Туре	Qty.	Order No.
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-1334950000-SP	5	2605360000
SD-CARD	1	2684400000
BATTERY-CR1220-3V	1	2684410000
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## UC20-WL2000-AC-CAN

- Controller for automation and IoT applications
- Engineering tool u-create web
- System supply of 64 I/O modules
- Dual-Core CPU, 624 MHz
- 2 x 5 A current path
- CAN Interface

## UC20-WL2000-AC-CAN



## **Technical data**

### System data

max. number of modules

Configuration interface

Processor Memory (Flash)

Real-time clock

Engineering tool

Supply

Supply voltage for inputs

Supply voltage for outputs Feed current for  $\mathbf{I}_{\mathrm{IN}}$  (input current path) , max.

Feed current for I<sub>OUT</sub> (output current path), max.

Current consumption  $I_{IN}$  (power segment of the field bus coupler), typ.

Weight

Dimensions H x W x D

## **Ordering data**

Module variants	
	Automation controller (Web engineering)
Note	

## **Accessories**

Swievel marker Connection marker for pusher custom printing Connection marker for pusher neutral Module marker for custom printing Module marker for neutral Thermotransfer version (Material: Polyester) Thermotransfer version (material: polyester) Paper version for Laserprinter USB cable (USB A to Micro USB)

riopidoomone parto	
	Plug-in connector unit
Control accessories	
	SD Memory Card
	Battory for real-time clock

	SD Memory Card Battery for real-time clock
Note	

2 x RJ45 plug-in connectors
64
Micro USB 2.0
Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM
8 GB, 32 GB via microSD
Battery buffered
u-create web, u-OS
24 V DC +20 %/ -15 %
24 V DC +20 %/ -15 %
5 A
5 A
116 mA
232 g
120 mm / 52 mm / 76 mm

Туре	Qty.	Order No.
UC20-WL2000-AC-CAN	1	2928020000
A termination kit (UC20-EBK-ACC) is included in the controller package.		

Туре	Qty.	Order No.
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-2928020000-SP	5	2742900000
SD-CARD	1	2684400000
BATTERY-CR1220-3V	1	2684410000
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