

**UC20-SL2000-OLAC-EC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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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, u-control 2000 studio, OpenLinux Automation Controller with EtherCAT interface |
| Order No.  | <a href="#">2638920000</a>                                                                       |
| Type       | UC20-SL2000-OLAC-EC                                                                              |
| GTIN (EAN) | 4050118688641                                                                                    |
| Qty.       | 1 pc(s).                                                                                         |

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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      | 250 g      |

## Environmental Product Compliance

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

## Connection data

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

## General data

|      |       |                           |     |
|------|-------|---------------------------|-----|
| Rail | TS 35 | UL 94 flammability rating | V-0 |
|------|-------|---------------------------|-----|

## Power supply

|                                                                  |                      |          |
|------------------------------------------------------------------|----------------------|----------|
| Current consumption from I <sub>sys</sub> , typ.                 | 116 mA               |          |
| Feed current for I <sub>IN</sub> (input current path)            | max.                 | 5,000 mA |
|                                                                  | min.                 | 0 mA     |
|                                                                  | nominal              | 5,000 mA |
| Feed current for I <sub>IN</sub> (input current path) , 5 A max. |                      |          |
| Feed current for I <sub>OUT</sub> (output current path)          | nominal              | 5,000 mA |
|                                                                  | max.                 | 5,000 mA |
|                                                                  | min.                 | 0 mA     |
| Feed current for I <sub>OUT</sub> (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 studio                  | Field bus protocol     | EtherCAT                                        |
| Interface                              | 2x Ethernet TCP/IP, 1x Micro USB | Memory (Flash)         | 4 GB, 32 GB via microSD                         |
| Module type                            | Controller                       | Processor              | Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM |
| Programming environment                | CoDeSys 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    | 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 |

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Approvals



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

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## Technical data

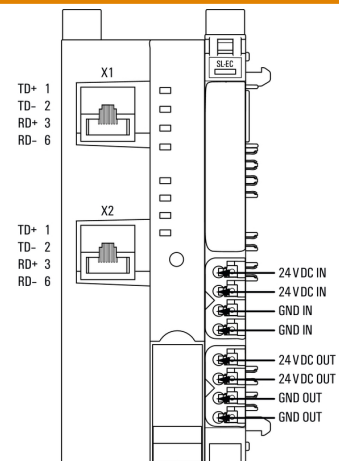
## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">RINA certificate</a><br><a href="#">Bureau Veritas - Type Approval Certificate</a><br><a href="#">Lloyd's Register - Type Approval Certificate</a><br><a href="#">Hazardous Locations - UL Class 1 Division 2 Group ABCD</a><br><a href="#">IECEX</a><br><a href="#">UL ATEX</a><br><a href="#">ABS-American Bureau Of Shipping - Certificate of PDA</a><br><a href="#">UC20-SL2000-OLAC-EC</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Engineering Data                            | <a href="#">CAD data – STEP</a><br><a href="#">Application notes – How to send e-mail notification with u-control</a><br><a href="#">Application notes – Application note: Initialization/failure SRAM / NV-RAM / retain memory</a><br><a href="#">Application notes – Modbus TCP Server</a><br><a href="#">Application notes – Modbus RTU Master with UR20-1COM-RS232-485-422 module</a><br><a href="#">Application notes – Modbus TCP Client/Master</a><br><a href="#">Application notes – u-create PROCON-WEB visualisation on SL2000-OLAC with u-create studio</a><br><a href="#">Quick start guide – Connecting u-remote UR20 via EtherCAT</a><br><a href="#">Quick start guide – MQTT Service</a><br><a href="#">Quick start guide – Using NTP protocol with OLAC</a><br><a href="#">Quick start guide – Saving plc variables to sd-card with SL2000 OLAC - u-create studio</a><br><a href="#">Quick start guide – Setting up secure OPC-UA connection with SL2000 OLAC - u-create studio</a><br><a href="#">Quick start guide – OPC UA communication between SL2000 OLAC and u-create PROCON-WEB - u-create studio / u-create PROCON WEB</a><br><a href="#">Quick start guide – Installation of docker on SL2000 OLAC - u-control studio</a><br><a href="#">Quick start guide – Using the data recorder</a><br><a href="#">Quick start guide – Node-RED on Studio Controller</a><br><a href="#">Library and function block – Weidmueller u-create studio 1.20.2 - EN - V2.0.0</a><br><a href="#">Application notes – Installing and updating nodes in Node-RED</a> |
| Engineering Data                            | <a href="#">EPLAN</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product Change Notification                 | <a href="#">u-create PROCON-WEB 6.4.4 Designer</a><br><a href="#">u-create PROCON-WEB 6.4.5.1 Designer</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Software                                    | <a href="#">Runtime Software – Software Unit: u-create PROCON-WEB ES - Runtime for u-control studio (Version 6.4.4.0)</a><br><a href="#">Runtime Software – Firmware update NV-RAM</a><br><a href="#">Runtime Software – u-create PROCON-WEB ES - Runtime for u-control studio (Version 6.4.5.1)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| User Documentation                          | <a href="#">u-control Handbuch (Deutsch)</a><br><a href="#">u-control Manual (English)</a><br><a href="#">Manual - DE</a><br><a href="#">Manual - EN</a><br><a href="#">UC20-SL2000-OLAC-EC Releasenotes - EN</a><br><a href="#">Weidmüller software license agreement V1.0</a><br><a href="#">Quickstartguide - u-create studio - EN</a><br><a href="#">Project setup guide - u-create studio - EN</a><br><a href="#">Quick reference / Instruction inlay - u-control studio hardware</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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## Drawings

**Connection diagram, Similar to illustration**



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