

Product data sheet

Specifications



Motion controller, Intel U300, 4GB, 3 Ethernet ports, Modicon M660

MN660C153N1010

Main

Range of product	Modicon M660
Product or component type	Motion controller
Device short name	M660
Range compatibility	Lexium 62 Modicon Edge I/O NTS Lexium 62 ILM
Operating system	Realtime OS
Video controller type	Intel UHD Graphics 610
Processor name	Intel Processor U300E 1.1 GHz

Complementary

Discrete input number	4, discrete input IEC 61131-2
Mounting location	Flat mounting Book mounting
Integrated connection type	2 Single Ethernet 100/1000/2.5G Base-T (with TSN support) 2 Dual Ethernet (switch) 100/1000/ Base-T (with TSN support) 2 USB 3 Gen 1 USB type A 5 Gbit/s 1 USB (V2.0) port USB type A 480 Mbit/s 1 NFC (Near Field Communication)
battery type	1 backup battery optional
Memory description	4 GB RAM LPDDR5 internal RAM
Data storage equipment	32 GB 1x SDHC support 2 TB 1x SHXC support > 35 MB/s)
Number of slots	2 mini PCI Express
Type of cooling	Fanless Fan (optional kit available)
Electrical connection	Terminal block (Front /Top)
[Us] rated supply voltage	24 V DC -15 %...+25 %, +/-5% AC ripple
Supply voltage limits	19.2...31.2 V DC
Cyber secured boot	Secure password boot UEFI
Fieldbus protocol	Sercos III
Control type	ON/OFF push-button

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Local signalling	1 LED (green) for power 1 LED (red) for ERR (Error) 1 LED (yellow) for HD/SD 1 LED for SSC 1 LED (green/yellow) for RTE 1 LED (green) for DIN1 1 LED (green) for DIN2 1 LED (green) for DIN3 1 LED (green) for DIN4 1 LED (green) for user
Height	10.6 in (270 mm)
Depth	7.7 in (195 mm)
Width	3.9 in (100 mm)
Net weight	10.25 lb(US) (4.65 kg)
Safety reliability data	MTTFd > 32 years, 30 °C PFD < 1E-5

Environment

Housing material	Plastic Aluminium Stainless steel
IP degree of protection	IP20 according to IEC 60529
Product certifications	CE UKCA
Standards	EN/IEC 61000-6-2 EN/IEC 61000-6-4 EN/IEC 61131-2
Directives	2014/30/EU - electromagnetic compatibility 1907/2006/EC - REACH directive 2015/863/EU - RoHS directive 2012/96/EU - WEEE directive
Ambient air temperature for operation	41...131 °F (5...55 °C) with fan kit and all option cards 41...131 °F (5...55 °C) without fan kit 41...104 °F (5...40 °C) without fan kit and all option cards
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
Relative humidity	5...95 % non condensing)
Operating altitude	2000 m
Pollution degree	2
Vibration resistance	10 m2/s3 (f= 2...3 Hz) conforming to IEC 60721-3-2 1 m2/s3 (f= 20...30 Hz) conforming to IEC 60721-3-2 0.5 m2/s3 (f= 50...2000 Hz) conforming to IEC 60721-3-2
Shock resistance	100 m/s²X, Y, Z directions for 3 times IEC 61131-2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.165 in (18.200 cm)
Package 1 Width	12.008 in (30.500 cm)
Package 1 Length	17.047 in (43.300 cm)
Package 1 Weight	13.254 lb(US) (6.012 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	12

Package 2 Height	24.803 in (63.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	177.472 lb(US) (80.500 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	2 511 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	158 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	10 kg CO2 eq.
Carbon footprint of the installation phase [A5]	1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 334 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	8 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Again

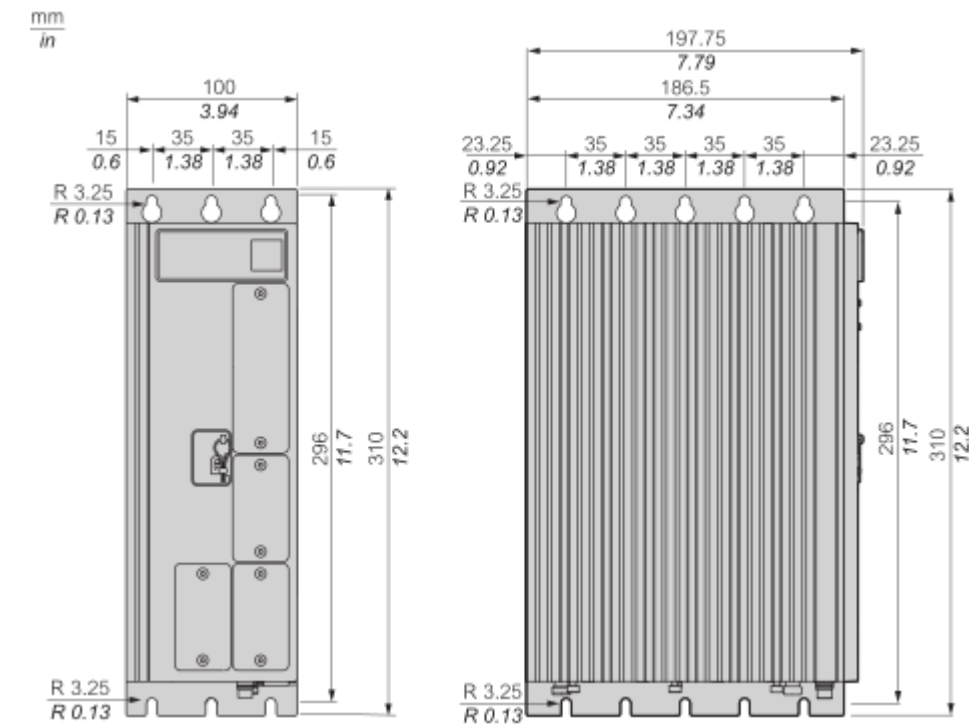


Repack and remanufacture

Recyclability potential, in %	83
Circularity Profile	End of Life Information
Take-back	No

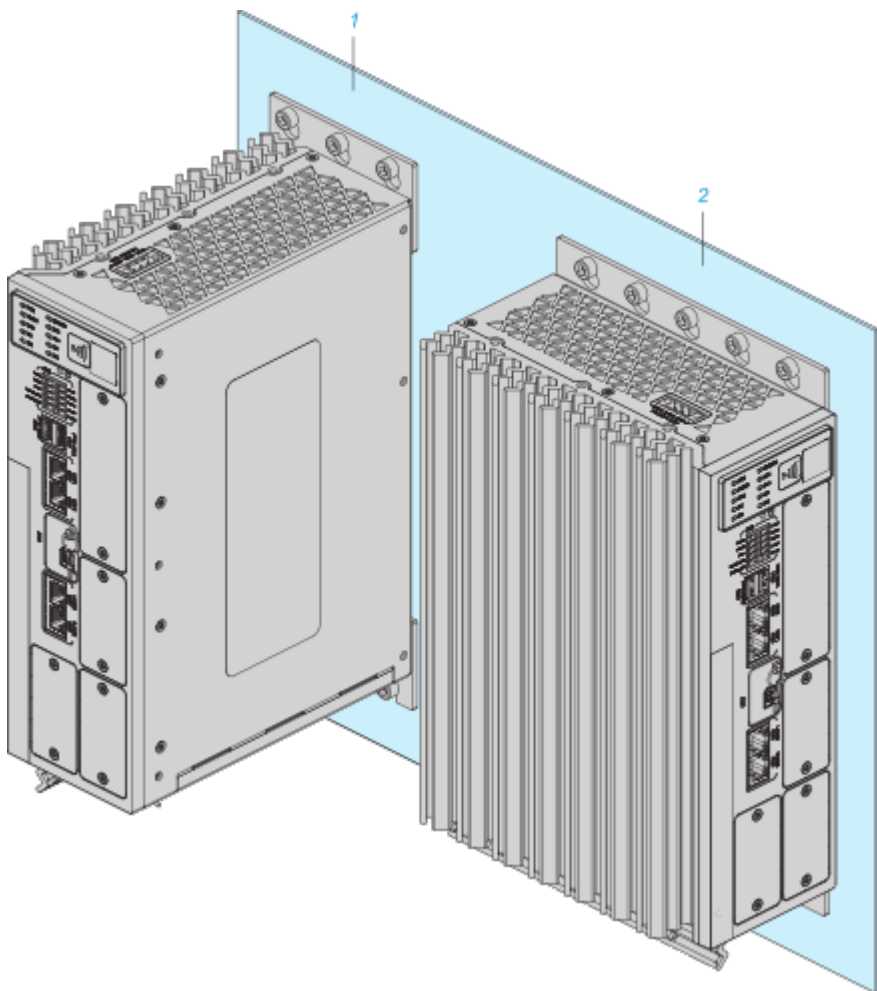
Dimensions Drawings

Dimensions



Mounting and Clearance

Mounting Types

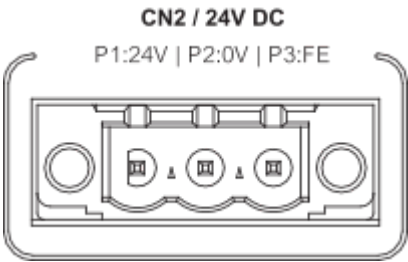


- 1 : Rear wall mounting
- 2 : Side wall mounting

Connections and Schema

Wiring

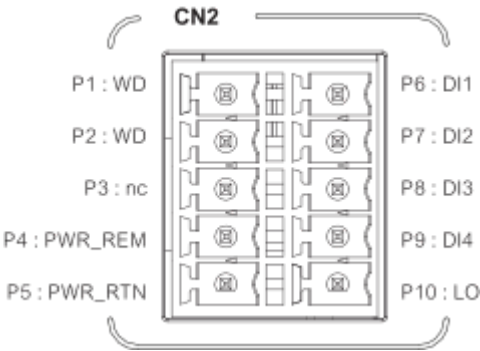
Wiring the Power Supply Connector CN1



Pins of connector CN1:

Designation	Function
P1:24V	24 Vdc in
P2:0V	0 Vdc in
P3:FE	Functional ground

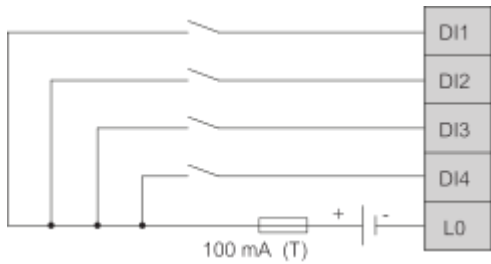
Wiring the Digital Inputs (Connector Overview CN2)



Pin Designation	Signal / Function
P1 WD	Status output (watchdog) V+
P2 WD	Status output (watchdog) V-
P3 nc	Do not connect
P4 PWR_REM	Input for controlling power on/off, 24 V
P5 PWR_RTN	Input for controlling power on/off, 0 V
P6 DI1	Digital input 1
P7 DI2	Digital input 2

P8 DI3	Digital input 3
P9 DI4	Digital input 4
P10 LO	Common for digital inputs

Wiring the Digital Inputs DI1 ... DI4



Connect the following pins of CN2:

- P6 DI1
- P7 DI2
- P8 DI3
- P9 DI4
- P10 LO

Image of product / Alternate images

Alternative

