

This guide provides specifications for Unitronics' Uni-COM™ UAC-01EC2 Module.

The UAC-01EC2 module support EtherCAT. Via this module, UniStream™ controllers can act as EtherCAT masters.

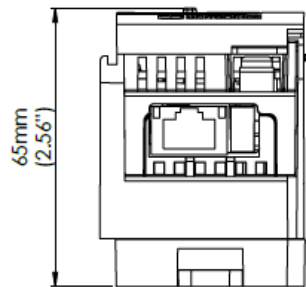
The UAC-01EC2 EtherCAT master module can be used with UniStream™ PLC (USC-B5/B10) family of Programmable Logic Controllers.

Installation Guides are available in the Unitronics Technical Library at www.unitronicsplc.com.

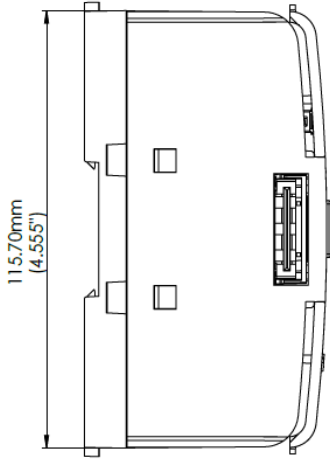
Communication	
EtherCAT	
Number of ports	1
Port type	100 Base-TX (RJ45 port)
Isolation voltage	500VAC for 1 minute
Cable	Shielded CAT5e cable, up to 100 m (328 ft)
EtherCAT Data Exchange Capability	CoE Based
EtherCAT Topologies	<ul style="list-style-type: none"> Line, daisy chain based Star using EtherCAT junctions 100m maximum transmission distance between nodes Pre-defined topology, network scan functionality is not supported
EtherCAT Capabilities	<ul style="list-style-type: none"> Support up to 8 Unitronics SERVO drives (UMD), non-interpolated EtherCAT terminal system modular I/O (communication between I/O modules is EtherCAT based) Supported application protocol: CoE (CANopen over EtherCAT), PDO and SDO messages can be sent to slaves via EtherCAT 1 ms scan time
USB Host	
The USB Host port is intended only for UAC-01EC2 firmware updates	
Number of ports	1
Port type	Type A
Data rate	USB 2.0 (480Mbps)
Isolation	None
Cable connection	Not allowed
Over current protection	Yes
IO/COM Bus	
Bus current consumption	650 mA

Indicator LEDs		
LNK EtherCAT Link	Green	Ethernet Connected
ECAT EtherCAT Communication	Green	OFF: During startup. ON: EtherCAT running, topology ok and all slaves communicating Slow Blink: EtherCAT communication failure or topology error Rapid Blink: Runtime error
Status	Red	ON: Power on but no PLC connected Slow Blink: During OS startup Rapid Blink: PLC communication failure
	Green	ON: Power and PLC connected and running Slow Blink: During boot Rapid Blink: During OS startup
	Orange	ON: During firmware upgrade process. Slow Blink: Firmware finished successfully Rapid Blink: During firmware upgrade failure

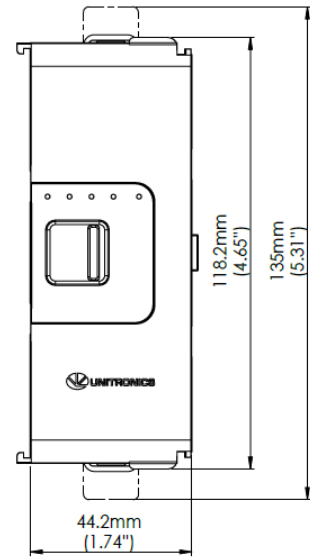
Environmental	
Ingress Protection	IP 20, NEMA 1
Operational temperature	-20°C to 55°C (-4°F to 131°F)
Storage temperature	-30°C to 70°C (-22°F to 158°F)
Relative Humidity (RH)	5% to 95% (non-condensing)
Shock	IEC 60068-2-27, 15G, 11ms duration
Vibration	IEC 60068-2-6, 5Hz to 8.4Hz, 3.5mm constant amplitude, 8.4Hz to 150Hz, 1G acceleration.
Dimensions	
Weight	0.14 Kg (0.308 lb)
Size	As shown in the images below



Bottom View



Side View



Front View

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