Uni-COM™ CB Modules

Technical Specifications
UAC-CB-01RS2, UAC-CB-01RS4, UAC-CB-01CAN

This guide provides basic installation information for Unitronics' Uni-COM™ CB Modules. Use them to add communication ports to specific models of the UniStream® family of Programmable Logic Controllers. Compatible models comprise a Uni-COM™ CB COM Module Jack which provides the connection point for the module.

Refer to the specifications of your UniStream model to check whether it is compatible with CB modules.

UAC-CB-01RS2 offers one RS232 port, UAC-CB-01RS4 offers one RS485 port, and UAC-CB-01CAN offers one CANbus port.

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

Communication	
UAC-CB-01RS2 (RS232 module)	
Number of ports	1
Voltage limits (receiver)	±20 VDC maximum, relative to Signal Ground (SG) pin
Baud rate range	1,200 – 115,200 bps
Isolation voltage	500VAC for 1 minute
Connector type	D-Sub 9 pin, male
Cable type	Shielded
Cable length	Maximum 15 m (50 ft)
UAC-CB-01RS4 (RS485 module)	
Voltage limits	-7 to +12 VDC maximum, Common+Differential
Baud rate range	1,200 – 115,200 bps
Nodes	Up to 32
Isolation voltage	500VAC for 1 minute
Cable type	Shielded twisted pair, in compliance with EIA RS485
Cable length	Maximum 1,200 m (4,000 ft)
Termination	Set using DIP Switches
UAC-CB-01CAN (CANbus module)	
Power requirement	None. The CANbus port is internally powered.
Isolation voltage	500VAC for 1 minute
Cable type	DeviceNet® or CAT-5e shielded twisted pair

Baud rate and maximum trunk line length

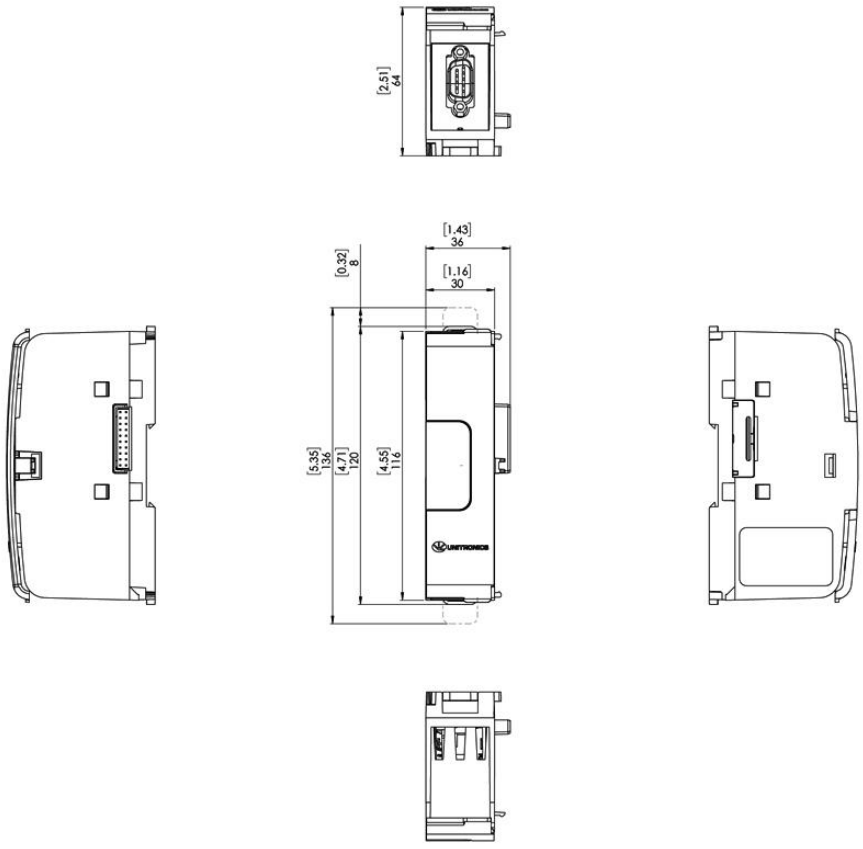
Baud rate (bps)	**DeviceNet ® Thick cable**	**DeviceNet ® Mid cable**	**DeviceNet ® Thin cable or CAT-5e cable**
1M	25m (82 ft)	25m (82 ft)	10m (32 ft)
500k	100m (328 ft)	100m (328 ft)	100m (328 ft)
250k	250m (820 ft)	250m (820 ft)	100m (328 ft)
125k, 100k	500m (1,640 ft)	300m (984 ft)	100m (328 ft)
50k, 20k,10k	1,000m (3,280 ft)	300m (984 ft)	100m (328 ft)

Maximum drop line (stub) length	The maximum cable distance from any device on a branching drop line to the trunk line is 2 m (6.5 ft) with any cable thickness.
Maximum cumulative drop line (stub) length per baud rate	

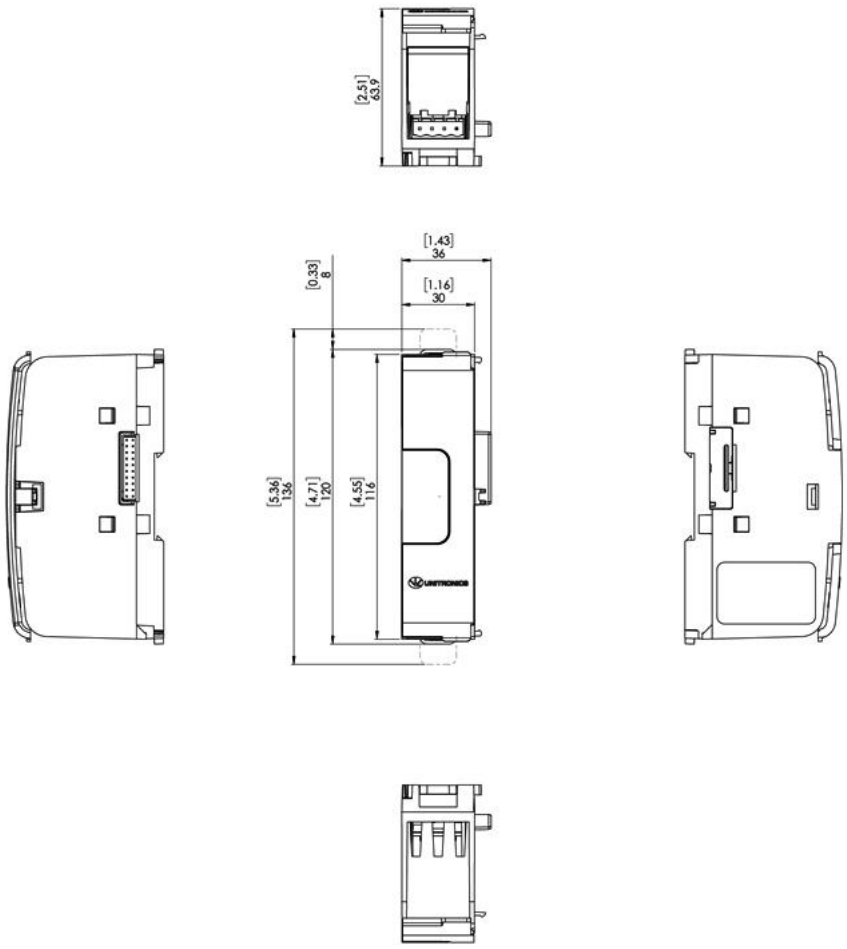
Baud rate (bps)	Cumulative drop line length
1M	5m (16 ft)
500k	25m (32 ft)
250k	60m (197 ft)
125k, 100k	100m (328 ft)
50k, 20k,10k	100m (328 ft)
Nodes	Up to 64
Termination	Set using DIP Switches

Environmental			
Ingress Protection	IP20, 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	UAC-CB-01RS2	UAC-CB-01RS4	UAC-CB-01CAN
	100 g (0.22 lb)	89 g (0.19 lb)	105 g (0.23 lb)
Size	As shown in the images below		

UAC-CB-01RS2



UAC-CB-01RS4



UAC-CB-01CAN

