DATASHEET

CoreSync MultiGate 90W ›

The CoreSync PoE MultiGate 2.0 is a low voltage power distribution and network connected module compliant with IEEE802.3bt standard that utilizes enhanced 90W-per-port PoE technology and lets you combine the power of 12 PoE Gateways in a single 1U package.

The PoE MultiGate 2.0 provides a minimum guaranteed and usable 71.3 watts of power per port for 12 ports and, control and secure 2-way communication with lights and other devices in a CoreSync-enabled building infrastructure.

FEATURES AND ADVANTAGES

IEEE 802.3bt compliant device	Uses low voltage PoE infrastructure for power and communication with lights, sensors, and other devices
Twelve PoE 90W Gateway ports	Capable of powering multiple lower wattage CoreSync Devices
CoAP network communication	Easy and secure convergence of IP infrastructure
CoreSync Enabled	Daisy chain capable, easy connection to all CoreSync devices
UL 2108 compliant	Safe operation and industry standard compliance
Standard 1U configuration	Fits into Standard rack mount configuration
Replaceable Gateways	Easy access to individual Gateways to allow for swapping of Gateways

SPECIFICATIONS

Electrical

Maximum Power Input per port: 94.1W
Maximum Power Output per port: 90W
Nominal Power Output per port:
71.3W (as per 802.bt Type 4 Standard)
Standby Power Consumption per port:
2.0W (no load)
Power Consumption per port at 71.3W:
3.2W (10.95 BTU/hr)
Power Consumption per port at 94.1W:
4.3W (14.7 BTU/hr)
Total Power Consumption at full load:
51.6W (176.4 BTU/hr)

Commercial Standards

PoE, PoE+, IEEE802.3bt
Class 2 Electrical Device
UL2108
CSA22.2 No. 250
FCC Class A
CE/UKCA

Mechanical

Housing Material: Cold Rolled Steel
Length: 482 mm (19 in.)
Height: 42.5 mm (1.67 in.)
Depth: 102 mm (4 in.)
Weight: 2100g (4.6 lbs.)

Electrical

Ambient Temp Range:
0 to 25°C (32 to 77°F)
Storage Temperature:
-40 to 85°C (-40°F to 185°F)
Max. case temperature: 82°C (180°F)
Relative Humidity: 10-80% Non-Condensing
Environmental Rating: Indoor

Product Safety

Internal Over-Temperature Protection
DO NOT hot swap

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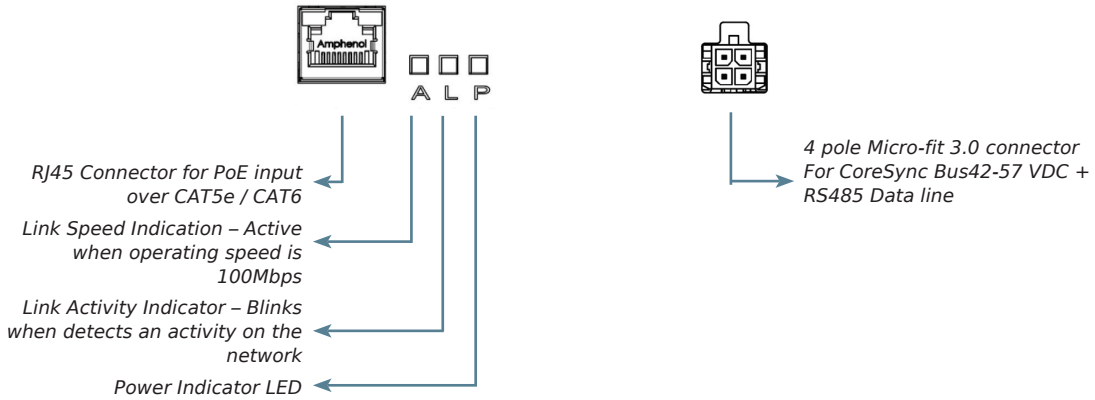
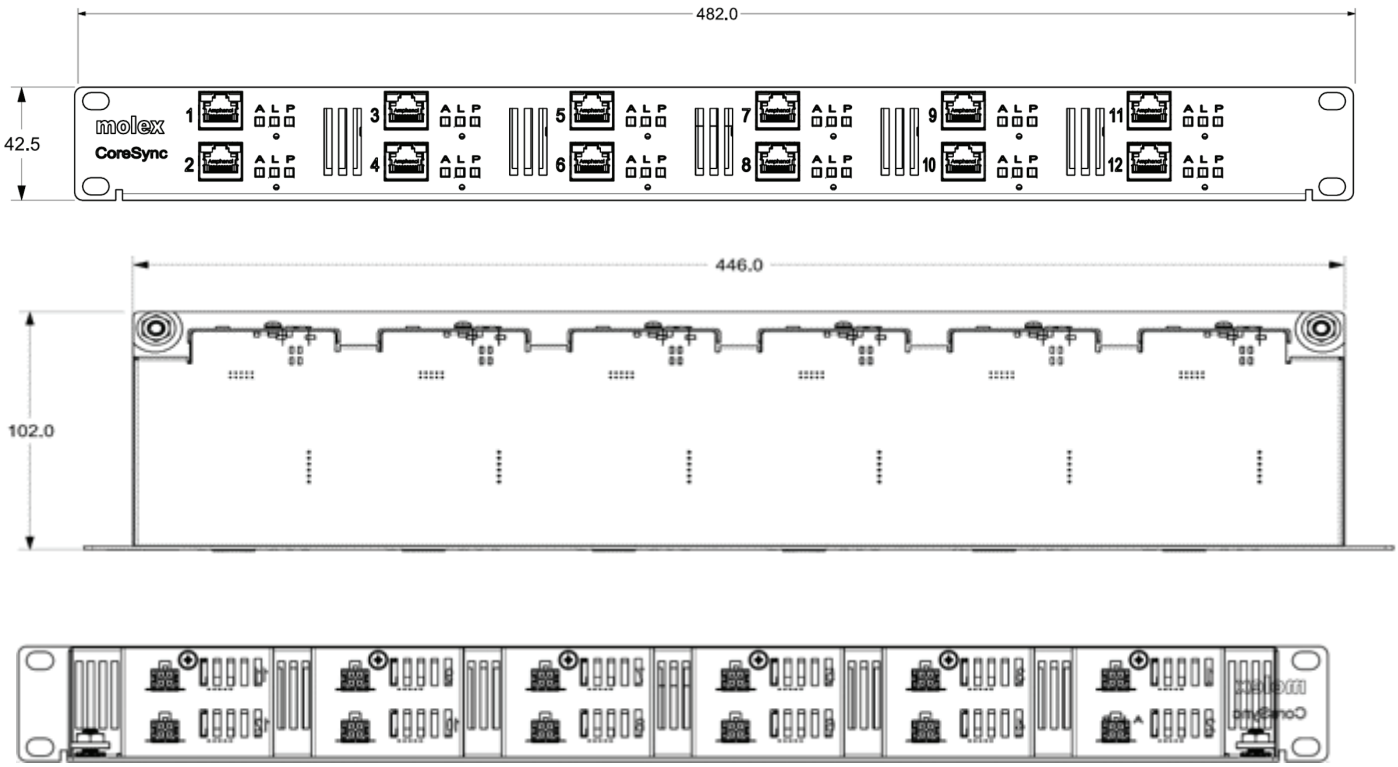
CoreSync MultiGate 90W ›

CONNECTION INTERFACES

Connection	Connection Specification
PoE Input	12 x RJ45, cable Cat 5e or better
CoreSync Output	12 x 4-pin Micro-fit 3.0 Connector, CoreSync Harness



DIMENSIONS



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CoreSync MultiGate 90W ›

ORDERING INFORMATION

Order No.	Description
1808282000	CoreSync MultiGate, 90W

RELATED PRODUCTS

Molex Series	Description	Gauge / Conductor	Start	End
180777, 180778	CoreSync Daisy-Chain	18/4	4-pin Micro-Fit receptacle	4-pin Micro-Fit receptacle
182106	CoreSync Extender, 2-Gender		4-pin Micro-Fit plug	4-pin Micro-Fit plug
182110-400X	CoreSync Long-Run Cable	18/4	4-pin Micro-Fit receptacle	4-pin Micro-Fit receptacle
182110-5XXX	CoreSync Poke-In Extender		4-pin Micro-Fit receptacle	4-pin Micro-Fit receptacle
182110-6XXX	CoreSync Extender, 2-Gender		4-pin Micro-Fit receptacle	4-pin Micro-Fit plug
182110-7XXX	Coresync Poke-In Extender		4-pin Micro-Fit receptacle	4-pin Micro-Fit receptacle

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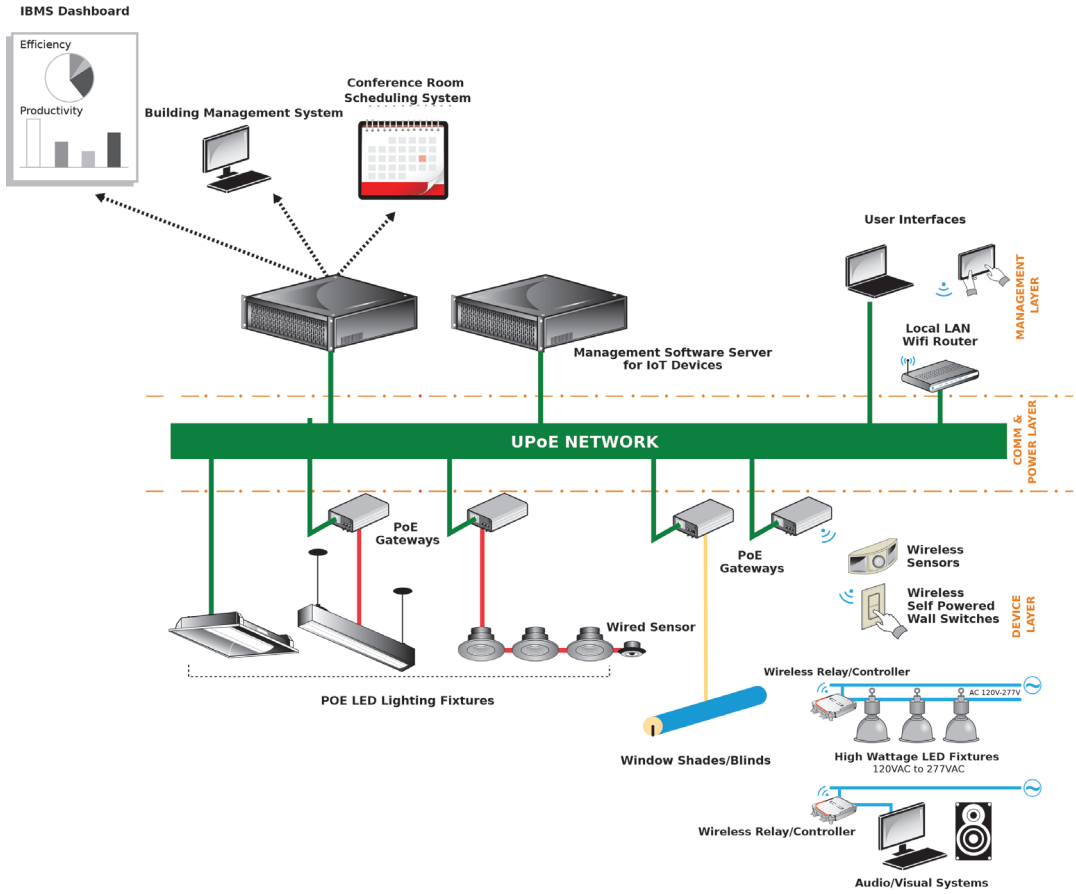
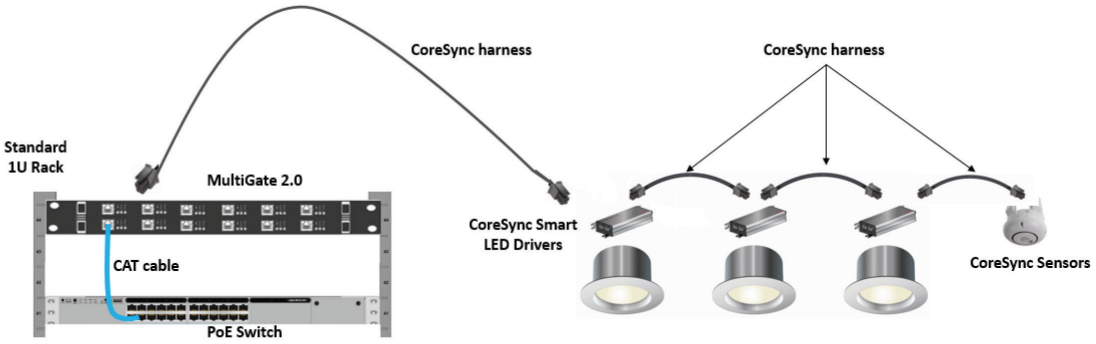
CoreSync MultiGate 90W ›

TYPICAL APPLICATION



DAISY CHAINING

Each CoreSync daisy chain device can be powered and physically connected to CoreSync PoE MultiGate 2.0 with a rugged and reliable Molex CoreSync harness cable using a Molex micro-fit 4-pin connection. If the power requirement for a group of devices is below 71.3W per port for 802.3bt 90W standard, a single port on Molex CoreSync MultiGate2.0 can power and control multiple drivers in a daisy-chain configuration, with the easy-to-use input and output connector scheme.



Minimum Guaranteed Power for each port on Multigate2.0 is 71.3W. The total power budget per port must comply with the requirement. The overall power budget considers the load power, power drop on individual device as well as interconnect losses. The overall voltage drop, and power drop can be calculated prior to the design. Please refer to CoreSync harness length calculator to calculate the maximum run distance.

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