

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## MOLEX CORESYNC

### PoE Reference Sheet



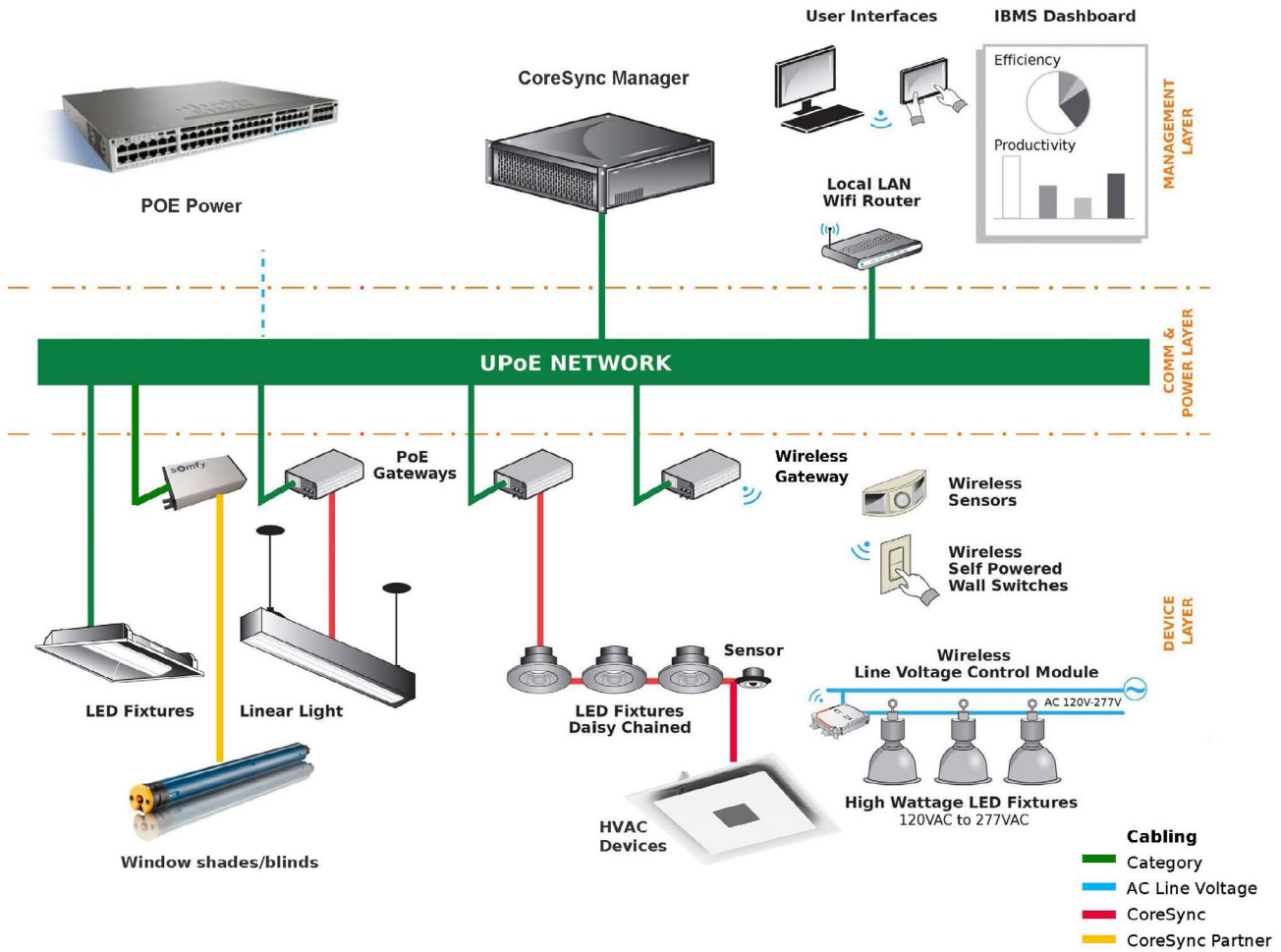
The PoE components written here are for reference for Alphabet products only and all third party components shall be provided by the customer through the OEM website. For more information, please visit [www.molexces.com](http://www.molexces.com).

SERIES	MCS	Molex CoreSync
POWER NODE TYPE	Choose 1 per type	
	180993-0001	The CoreSync PoE Gateway is a low voltage 60W power distribution and network connected module that utilizes PoE (Power Over Ethernet) technology.
	180798-1000	The CoreSync PoE Gateway 2.0 is a low voltage 90W power distribution and network connected module compliant with IEEE802.3bt standard that utilizes enhanced 90W-per-port PoE technology.
CONTROL DRIVER TYPE	Choose 1 per fixture. See datasheet to choose current output type.	
	180996-1007	Molex CoreSync 1 channel Programmable Smart LED Driver, for driving Constant Current LED engines in a wide variety of light fixtures. Con-trolled and powered by a Molex CoreSync PoE Gateway.
	180996-2007	Molex CoreSync 2 channel Programmable Smart LED Driver, for driving Constant Current LED engines.
	180996-5108	Molex CoreSync 1 channel Programmable High Current Smart LED driver that can be programmed to specific power outputs, Controlled and powered by a Molex CoreSync PoE Gateway.
	180996-6108	Molex CoreSync 1 channel Programmable High Current Smart LED driver that can be programmed to specific power outputs, Controlled and powered by a Bolex CoreSync PoE Gateway.
HARNES TYPE	CoreSync 1 channel Programmable Smart LED Driver, for driving Constant Current LED engines in a wide variety of light fixtures. Controlled and powered	
	180887-0410	CoreSync Micro-Fit 3.0 PoE Gateway Harness, Overmolded - 1 m length.
	180887-0430	CoreSync Micro-Fit 3.0 PoE Gateway Harness, Overmolded - 3 m length.
	180887-0450	CoreSync Micro-Fit 3.0 PoE Gateway Harness, Overmolded - 5 m length.
	180888-0410	CoreSync Micro-Fit 3.0 LED Driver Harness, Overmolded - 1 m length.
	180888-0430	CoreSync Micro-Fit 3.0 LED Driver Harness, Overmolded - 3 m length.
	180888-0450	CoreSync Micro-Fit 3.0 LED Driver Harness, Overmolded - 5 m length.
WIRELESS SENSORS	Order amount needed on one power line	
	180993-3001	The CoreSync 60W Wireless PoE Gateway enables remote network control of lights, sensors, local dimmers and zone controllers. <b>Required to communicate with wireless sensors</b>
	180997-0004	CoreSync Ceiling Mounted Occupancy Sensors are wireless and self powered
	180997-0005	CoreSync Wall Mounted Occupancy Sensors are wireless and self powered
	180997-0006	CoreSync Ambient Light Sensors are wireless and self powered Maintenance free wireless device that regularly measures and reports the temperature and humidity in a space
WIRED SENSORS	Order amount needed on one power line	
	182089-2000	Low voltage sensor platform leveraging network-connected Molex CoreSync infrastructure for digital building applications.
	182089-3000	Low voltage sensor platform leveraging network-connected Molex CoreSync infrastructure for digital building applications.
	182090-1000	CoreSync PoE Multi-Mount Sensor C enables fully network-connected sensing in a powered PoE fixture or mounted in a ceiling aperture.
	COR-ELB-S0350	CoreSync Emergency Lighting Bypass receives both a PoE input and emergency power from a Life Safety power source. During normal operation, PoE power from a Molex PoE Gateway passes through the Module, enabling routine CoreSync control of an emergency-designated fixture.

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## POE ARCHITECTURE LAYOUT

### PoE Gateway on the CoreSync Architecture



PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## NODE POWER SUPPLY MAX FIXTURES PER NODE MATRIX (LUMEN PACKAGE FOR XICATO XTM09)

	8W @ 700MA	11W @ 500MA	16W @ 700MA	31W @ 1050MA
180993-0001 (60W)	1-6	1-4	1-3	1
180798-1000 (90W)	1-9	1-6	1-4	1-2

NOTE: The connecting of multiple fixtures on one node will control all fixtures attached to that node simultaneously. For individual control, each fixture will need its own node per line.

## NODE POWER SUPPLY MAX FIXTURES PER NODE MATRIX (LUMEN PACKAGE FOR XICATO XTM19)

	5W @ 350MA	7W @ 500MA	10W @ 700MA	16W @ 700MA	26W @ 1050MA
180993-0001 (60W)	1-10	1-7	1-5	1-3	1
180798-1000 (90W)	1-14	1-10	1-7	1-4	1-2

NOTE: The connecting of multiple fixtures on one node will control all fixtures attached to that node simultaneously. For individual control, each fixture will need its own node per line.

## NODE POWER SUPPLY MAX FIXTURES PER NODE MATRIX (WATTAGES FOR STATIC WHITE)

	9W @ 250MA	11W @ 300MA	13W @ 350MA	15W @ 400MA	20W @ 550MA	26W @ 700MA
180993-0001 (60W)	1-5	1-4	1-3	1-3	1-2	1
180798-1000 (90W)	1-8	1-6	1-5	1-4	1-3	1-2

NOTE: The connecting of multiple fixtures on one node will control all fixtures attached to that node simultaneously. For individual control, each fixture will need its own node per line.

## NODE POWER SUPPLY MAX FIXTURES PER NODE MATRIX (WATTAGES FOR SUNLIKE)

	11W @ 250MA	14W @ 350MA	22W @ 500MA	38W @ 850MA
180993-0001 (60W)	1-4	1-3	1-2	1
180798-1000 (90W)	1-6	1-5	1-3	1-2

NOTE: The connecting of multiple fixtures on one node will control all fixtures attached to that node simultaneously. For individual control, each fixture will need its own node per line.

## NODE POWER SUPPLY MAX FIXTURES PER NODE MATRIX (WATTAGES FOR LUMENETIX)

	18W @ 740MA	35W @ 1400MA
180993-0001 (60W)	1-2	1
180798-1000 (90W)	1-4	1-2

NOTE: The connecting of multiple fixtures on one node will control all fixtures attached to that node simultaneously. For individual control, each fixture will need its own node per line.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

## NODE POWER SUPPLY MAX FIXTURES PER NODE MATRIX (WATTAGES FOR LUMINUMS CCT TW)

	9W @ 250MA	11W @ 320MA	14W @ 400MA	21W @ 550MA
180993-0001 (60W)	1-5	1-4	1-3	1-2
180798-1000 (90W)	1-8	1-6	1-5	1-4

NOTE: The connecting of multiple fixtures on one node will control all fixtures attached to that node simultaneously. For individual control, each fixture will need its own node per line.

## NODE POWER SUPPLY MAX FIXTURES PER NODE MATRIX (WATTAGES FOR LUMINUMS WARM DIM)

	10W @ 270MA	14W @ 370MA	23W @ 600MA
180993-0001 (60W)	1-5	1-3	1-2
180798-1000 (90W)	1-7	1-5	1-3

NOTE: The connecting of multiple fixtures on one node will control all fixtures attached to that node simultaneously. For individual control, each fixture will need its own node per line.

## MAX CABLE DISTANCE WITH NODE(S) AND UPOE+ SERVER (60 WATTAGE LOAD VS CABLE TYPE\*)

	6W	12W	18W	24W	30W	38W
CAT-5E - COPPER	328'	220'	145'	110'	85'	68'
CAT-6 - COPPER	328'	275'	185'	135'	110'	87'
CAT-7 - COPPER	328'	275'	185'	135'	110'	87'
CAT-5E - LOW COST CU/AL	280'	140'	90'	70'	55'	44'

NOTE: The max cable distance is determined with a max 3% wattage loss per 60W line. Any other wattage output different from the PoE+ power source will have different max cable values. Contact factory for custom load calculation.

## MAX CABLE DISTANCE WITH NODE(S) AND UPOE++ SERVER (90 WATTAGE LOAD VS CABLE TYPE\*)

	6W	12W	18W	24W	30W	38W
CAT-5E - COPPER	328'	328'	290'	218"	175'	138'
CAT-6 - COPPER	328'	328'	328'	275'	220'	174'
CAT-7 - COPPER	328'	328'	328'	275'	220'	174'
CAT-5E - LOW COST CU/AL	328'	280'	187'	140'	112'	88'

NOTE: The max cable distance is determined with a max 3% wattage loss per 90W line. Any other wattage output different from the PoE++ power source will have different max cable values. Contact factory for custom load calculation.

