

Take your network anywhere.
ONEREACH™
POE EXTENDER SYSTEM



 Nexans

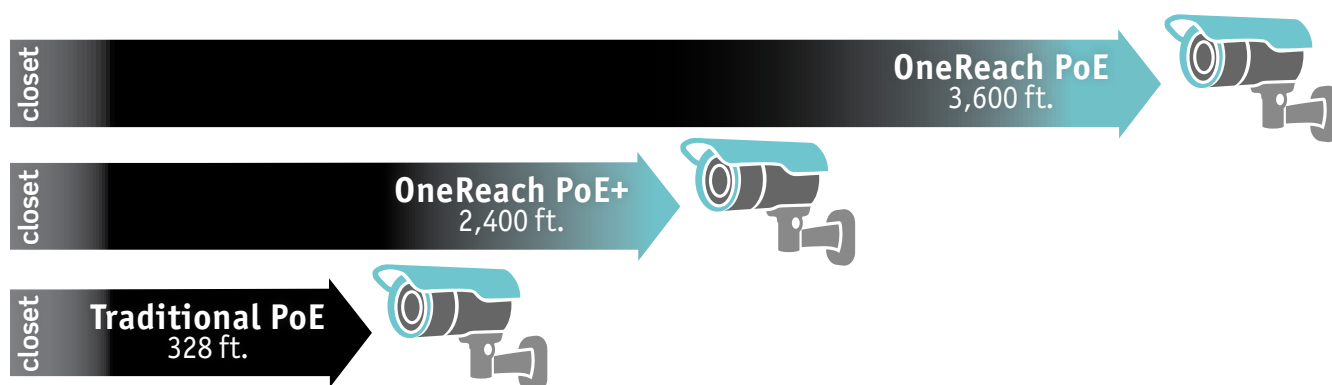


**YOUR NETWORK IS CONNECTING AND POWERING
DEVICES LOCATED BOTH INSIDE AND OUT. ONEREACH
ALLOWS YOU TO CONNECT AND POWER DEVICES UP TO
A KILOMETER AWAY.**



Reach Farther with OneReach

The typical security system requires cameras, emergency phones, and wireless access points to be located outside in parking lots, parking garages, and at various other places inside and outside the building. The OneReach™ solution is a game changer for these remote applications. By combining fiber cable for long-distance data transmission and copper cable for power over Ethernet (PoE) in a single composite cable, OneReach takes data, PoE and/or PoE+ to all new distances.



Streamline Your Infrastructure Management

OneReach simplifies your device management and power supply, resulting in reduced costs and streamlined network management.



CENTRALIZED DEVICE MONITORING

The OneReach system starts in the closet with a single chassis that provides power and data to multiple remote devices. This unique approach allows your IT team to manage remote devices from one central location.



NO SEPARATE POWER LINES NEEDED

Running electric to devices located in remote areas can be complicated and costly. OneReach supplies power and data through a single cable, reducing installation and maintenance costs.



CONSOLIDATED UPS

With any security system, back-up power is critical. With OneReach, all power comes from the IDF, so you can protect all your remote devices from a central UPS located in an existing IDF.



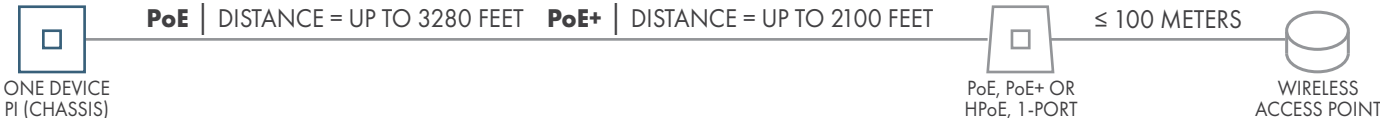
GUIDANCE FOR BUILDING YOUR SYSTEM

OneReach is modular, allowing you to easily scale the system to meet your specific application requirements. Every application will require devices from each of the system segments: Head End Power Injection (PI), OneReach Cable Assembly (OCA), and Remote PoE Port (RPP). The specific devices will be determined by the number of remote devices to be supported, the distance of the RPP from the closet and the environmental conditions of the installation. The examples below provide guidance on the specifics required for a few common installation options.

VISIT [ONEREACHSYSTEM.COM](https://onereachsystem.com) TO USE OUR ONLINE SYSTEM CONFIGURATION TOOL AND EASILY DETERMINE THE BILL OF MATERIALS FOR YOUR SPECIFIC APPLICATION NEEDS.

ONE WIRELESS ACCESS POINT INSTALLED IN THE FACTORY CEILING:

PI			ONEREACH CABLE ASSEMBLY (xxx = length in ft)			RPP		
NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D
1-Port Source	81000380	1	1-Port 12 AWG OCA	BHCR02EDD044FFNM8Pxxx	1	1-Port Remote	81000381	1



FOUR SECURITY CAMERAS INSTALLED IN A SMALL PARKING AREA:

PI			ONEREACH CABLE ASSEMBLY (xxx = length in ft)			RPP		
NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D
2U Power Chasis	81000569	1	4-Port 12 AWG OCA	BACR08EDDD44FFNM8Pxxx	2	2-Port Remote	81000773	2
Power Supply Module	81000215	1						
4-Port Media Module, LC	81000413	1						
Blanking Panels	81000190	3						



Please note: Surge protection for remote and devices is built in. However, when installed outside, extra surge protection and grounding is required in areas that are prone to lightning.

OneReach

ONE PATHWAY. ONE PULL. ONE SOLUTION.

With options to power one device or many, the OneReach PI seamlessly becomes a part of the network infrastructure, with 2U Power Injector Chassis' installing in a standard 19" rack.

PI HEAD END DEVICES

PART NO.	DESCRIPTION	SLOTS OCCUPIED	QTY. OF SUPPORTED PoE POWERED DEVICES			OPERATING TEMP. (°C)
			PoE Ports	PoE+ ports	HPoE ports	
81000546	1-port Source, 1000BASE-SX, LC duplex, Ext AC Power Supply	N/A	1	1	1	-40 to +50
81000380	1-port Source, 1000BASE-SX, LC duplex, Ext AC Power Supply	N/A	1	1	1	0 to +40
81000217	1-port Source, 100BASE-FX, LC duplex, Ext AC Power Supply	N/A	1	1	1	0 to +40
81000577	1-port Source, 100BASE-FX, LC duplex, Ext AC Power Supply	N/A	1	N/A	N/A	0 to +40
81000432	1-port Source, 100BASE-FX, LC duplex, DIN rail mount	N/A	1	1	1	-40 to +50
81000436	1U Mounting Bracket for two 1-port Sources	N/A	N/A	N/A	N/A	0 to +40
81000215	Power Supply Module, 400W AC in, 12 & 56 VDC out (dual voltage)	2	12	8	4	0 to +40
81000569	2U Chassis, Class 2 Power Output rear terminal blocks, 6 slots	N/A	N/A	N/A	N/A	0 to +40
81000568	4U Chassis, Class 2 Power Output rear terminal blocks, 12 slots	N/A	N/A	N/A	N/A	0 to +40
81000190	Blanking Panel for Power Injector Chassis	1	N/A	N/A	N/A	0 to +40
81000413	Media Module, 4-port, 1000BASE-SX, 4 x LC duplex, 12 VDC in	1	4	4	4	0 to +40
81000584	Media Module, 4-port, 100BASE-FX, 4 x LC duplex, 12 VDC in	1	4	4	4	0 to +40



ONEREACH CABLE ASSEMBLIES * *

Operating Temperature: -40°C to +75°C

PART NUMBER	CABLE TYPE	APPLICATION	# OF FIBERS	FIBER TYPE	CONDUCTOR COUNT	CONDUCTOR GAUGE
BACR04EDDO44FFNM8Pxxx, LC both ends	Loose Tube	2-port assembly	4	OM3	2	12
BHCP02EDDO44FFNM8Pxxx, LC both ends	Tight Buffer	1-port assembly	2	OM3	2	12
BHCR02EDDO44FFNM8Pxxx, LC both ends	Tight Buffer	1-port assembly	2	OM3	2	12
BHRC02EDDON4NFM8Pxxx, LC one end	Tight Buffer	1-port assembly	2	OM3	2	12
BHCR02EDDD44FFNM8Pxxx, LC both ends	Tight Buffer	1-port assembly	2	OM3	4	12
BHCRK02EDDO44FFNM8Pxxx, Interlock Armor, LC both ends	Tight Buffer	1-port assembly	2	OM3	2	12
BHCRK02EDDON4NFM8Pxxx, Interlock Armor, LC one end	Tight Buffer	1-port assembly	2	OM3	2	12

xxx is length of assembly in feet. Contact Nexans Inside Sales at 800-237-5835 for exact part number and pricing.

** Additional cable/assembly configurations are available upon request.

REMOTE END DEVICES

PART NO.	DESCRIPTION	QTY. OF SUPPORTED POWERED DEVICES
81000663	Remote, 1-port, 100BASE-FX, PoE, LC duplex, MMF, RJ45, M8 Power Input	1
81000218	Remote, 1-port, 100BASE-FX, PoE+, LC duplex, MMF, RJ45, M8 Power Input	1
81000381	Remote, 1-port, 1000BASE-SX, PoE+, LC duplex, MMF, RJ45, M8 Power Input	1
81000462	Remote, 1-port, 100BASE-FX, HPoE, LC duplex, MMF, RJ45, M8 Power Input	1
81000545	Remote, 1-port, 1000BASE-SX, HPoE, LC duplex, MMF, RJ45, M8 Power Input	1
81000343	Remote, 1-port, 100BASE-FX, PoE+, LC duplex, MMF, RJ45, DIN Rail Mount, M8 Power Input	1
81000773	Remote, 2-port, 1000BASE-SX, PoE+, 2 x LC duplex, MMF, RJ45, M8 Power Input	2

Technical support for OneReach can be reached at 800-237-5835.





ONEREACH: TAKE YOUR NETWORK ANYWHERE

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