

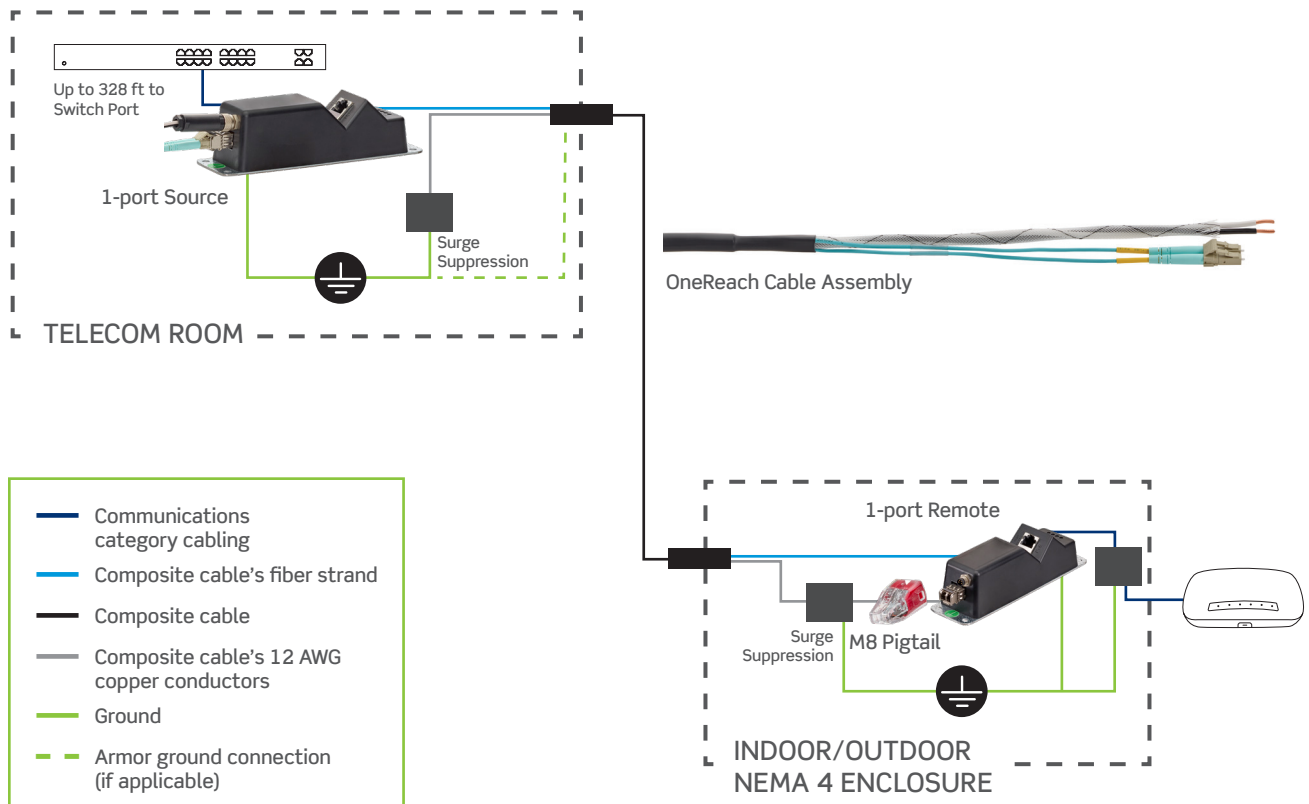
SOLUTION BRIEF

# OneReach™ PoE Network Extension for Wireless Access Points

Always-connected environments such as college campuses, hotels, or transportation depots often require robust wireless access points at remote locations. The OneReach solution is revolutionary for these far-reaching applications. By combining fiber cable for long-distance gigabit data transmission and copper cable for Power over Ethernet (PoE) in a single gigabit composite cable, OneReach enables wireless access points installed far beyond traditional distance limitations to facilitate remote access for laptops, smartphones and tablets.



- OneReach enables PoE equipment (up to Type 4, Class 8) to be located more than 328 feet from the switch
- The modular solution supports scaling the system to meet specific application requirements
- It simplifies network and device management through a centralized infrastructure, while generating cost savings
- Supports adding remote PoE devices with existing non-PoE network switching gear



## HEAD END DEVICES FOR POWER INJECTION

The Power Injection equipment provides both the power to run the system and the technology to transmit the data signals to previously unreachable distances. By locating the power for remote devices in a single local closet, users can consolidate UPS devices and streamline and simplify management.



- **1-port Sources** can act as standalone media conversion and power injection or mount to rack with a 1U Mounting Bracket (81000463)

DESCRIPTION	OPERATING TEMP. (°F)	PART NO.
1-port Source, 10/100/1000BASE-T, RJ-45, 1000BASE-SX, LC Duplex, MMF, 56/56 VDC In/Out, Ext AC Power, NA Plug	32 to 104	81001514

## REMOTE END DEVICES

Remote devices mounted outdoors require minimum NEMA 4 enclosures. All remotes connect to active devices using category cables or patch cords.



- No need to install costly remote power outlets or remote industrial switches
- There is no virtual entry point for hackers into your network
- Eliminates the need for remote UPS
- Uses standard RJ-45 connectivity to patch to the security camera, wireless access point, or any other IP-based device
- Provides PoE to end devices even if connected to a non-PoE switch port
- Meet the rigors of outdoor applications with IEC 61000 4-5 Level 4 Surge Immunity (4000 V)
- Meets PoE standard 802.3 100 W (Type 4, Class 8), enabling support of multiple PoE classes

DESCRIPTION	OPERATING TEMP. (°F)	PART NO.
1-port Remote, 10/100/1000BASE-T, 1000BASE-SX, PoE++, LC duplex, MMF, RJ-45, 56 VDC in, M8 Power Input (1 powered device supported)	-40 to 158	81001512

## HYBRID COPPER/FIBER CABLE

- Bulk hybrid cable available for larger field installations using typical fiber field termination and splicing
- Pigtails provide means to connect a bulk composite cable or OneReach Cable Assemblies to OneReach remote or head-end devices

Additional cable/assembly configurations are available upon request.

## CABLE ASSEMBLIES



Composite copper/fiber cable assemblies that support power and data transmission within a single jacket. These cable assemblies combine 12 AWG conductors with either tight-buffered or loose tube optical fiber cable designs to support 1-port remote devices.

- Combine optical fiber and copper conductors in a single assembly that easily attaches with standard M8 and LC connectors
- Provides common pathway for fiber backbone and Class 2 power supply
- Designs for indoor, outdoor, and indoor/outdoor environments

DESCRIPTION	PART NO.
LC-LC 1-port Tight Buffered Cable Assembly, 2-fiber, OM3, two 12-gauge conductors, riser rated	BHCR02E02D44FFNNPxxxx <sup>^</sup>
1-, 2-port M8 Pigtail, two 18-gauge conductors	11099456

xxxx = Length in feet (using leading zeros as needed)

<sup>^</sup> = Pigtail 11099456 is required when ordering.

Additional cable/assembly configurations are available upon request.

For help with OneReach system integration questions, application reach distances, and other details, please contact Leviton Network Solutions Technical Support at 1-800-722-2082.

See the full range of OneReach head end power injection devices, cable assemblies, and remote PoE ports at [Leviton.com/OneReach](http://Leviton.com/OneReach).