OneReach FAQ's

Can the OneReach System be used with a powered Ethernet switch?
The OneReach System provides midspan power injection per the IEEE 802.3af and 802.3at specifications. Therefore, it will work with both powered and non-powered switches. In this instance, the powered switch is acting only as a switch, and will not provide power to the device. The OneReach Power Injection (PI) module is still needed.

What is the maximum distance to my powered device (IP camera, access point, etc.)
The maximum distance to the Remote PoE Port (RPP) is 3850 feet for PoE. From here, an additional 100 meters (330 feet) of UTP cable can be installed to the device. Therefore, the maximum distance to the device is 4180 feet.

What cable is needed to connect the RPP to the powered device?
A 4-pair category cable or patch cord, terminated with RJ45 connectors, is needed. If the Remote PoE Port (RPP) is located in an outdoor environment, an OSP-rated cable such as LANmark-6 OSP (Part Number 10139885) should be used. Per the Direct Attach warranty program, a plug can be attached onto this horizontal cable.

Is there a PoE+ option?
Components are available that are compliant to IEEE 802.3at, commonly referred to as PoE+.

Is there a 10/100/1000 Mbps option?
Yes there is. The "tri-speed" option is available with PoE+ (802.3at) power.

Does the system provide SNMP support?
No, the components in the OneReach system are unmanaged devices providing media conversion from fiber to copper Ethernet.

How do I handle surge suppression on the copper conductors?
The OneReach system uses transient voltage suppression in the Power Injector (PI) and the Remote PoE Port (RPP) devices. Both devices meet IEC 1000-4-5 for surge suppression. Berk-Tek recommends the use of

available add-on surge protection on remote end copper ports for applications in lightning prone areas.

Does the system support auto-sensing?
On the copper side of the Power Injector (PI) and Remote PoE Port (RPP) devices, Ethernet connectivity is automatically detected. Also on the copper side, both the PI and RPP auto-negotiate connection speed and full/half duplex. On the fiber side, the optical link is automatically detected.

Are the media converters UL-listed?
The OneReach system complies with FCC Part 15 Class A for commercial products. The system also complies with CE EMC/EMI directive EN55024 and EN55022 including Electrostatic Discharge (IEC 1000-4-2) and Surge (IEC 1000-4-5). The Power Injector AC power supply is UL-listed.

Does OneReach support any standards outside the USA? Can the system be deployed in Canada, CALA, EMEA?
The media converters are CE certified, and are therefore approved for use in many regions. The cable listing should be checked for compliance to local codes.

Can I install bulk cable and install connectors in the field?
A copper pigtail is available with an M8 connector terminated to black and white conductors. This pigtail can be crimped to the remote end of the cable run for connection to the RPP. Along with the use of field terminating LC connectors, this method will allow for the field termination on 1-port cables. The MPO connector used on the 4-port cable cannot be installed in the field.

What is the warranty?
The OneReach system comes with a manufacturer's 1-year limited warranty. For OASIS installations, the cable can come with a 15-year warranty.