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 8660 feet for PoE . From here, an additional 100 meters (328 feet) of UTP cable can be installed to the device. Therefore, the maximum distance to the device is 8988 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 Single-Mode option?
Yes, with a 1-port 1000BASE-LX Source and remote that supports 1 PoE, PoE+, or HPoE (60 W) remote.

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, all of the devices offer 10/100/1000BASE-T. The "tri-speed" option is available for all power options (PoE, PoE+, and HPoE). Fiber transmissions speeds occur either at 100BASE-FX, 1000BASE-SX, or 1000BASE-LX, depending on the part numbers selected.

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 both ends of the composite cable and on the remote end copper ports for applications in high surge 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 either 100BASE-FX, 1000BASE-SX, or 1000BASE-LX, where link will be automatically detected.

Are OneReach parts RoHS compliant?
Yes, all OneReach parts are RoHS compliant.

Can I install bulk cable and install connectors in the field?
Yes. A copper pigtail is available with an M8 connector terminated to black and white conductors (Single-Port, 2-port, or MTP 4-port Remotes) or black, white, blue, and yellow conductors (4-Port PoE+ Remotes). This pigtail uses a push-on connector for field connection; no crimping tools are needed. Along with the use of field terminating LC connectors, this method will allow for the field termination on 1-port cables. LC and MPO pigtails are available for field termination.

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.