

Providing Power to the Network Edge, Outdoors

Product Features

IP Delivery in Traffic Environments:

- Extended Temperature Range (-40°C to 65°C)
- Standard Temperature Range (0°C to 50°C)
- Redundant 48VDC inputs
- Two SFP combo Ports For Redundant Rings.
- SFP's Support 100 or 1000Base Modules
- PoE Injected on up to 8 ports
- SNMP Trap and SMTP Email Support
- SNTP Clock Synchronization
- IGMP Snooping and Query Mode
- IEEE 802.1Q VLAN Support
- 802.1P QoS – 4 Queue Levels
- ToS

When the IEEE 802.3af Power-over-Ethernet standard was ratified in 2003, enabling network devices to be powered directly from the same UTP cable that provided the data connection. This allowed manufacturers to unleash a new wave of innovative, network-powered devices such as security cameras and wireless access points (WAPs). The early success of these products has further spurred growth of the network all the way to the outdoors, in places such as citywide traffic intersections. However, as municipalities now deploy network cameras and wireless access points the need has arisen for equipment to operate reliably even in harsh environmental extremes.

While many traffic intersections have power available, a challenge is providing low-voltage to the top of a luminaire, where cameras or WAPs are located. Transition Networks' new SISPM1040-182D-LRT Industrial Managed Power-over-Ethernet switch now solves this problem and is a critical building block in these systems, delivering "intelligent" power necessary to run other Ethernet equipment--at power levels as high as 12.9 watts (this is the maximum limit specified by the IEEE 802.3af standard). Intelligent power management means the SISPM1040-182D-LRT is smart enough to recognize and categorize the power load requirements on each of its network ports, while continuously monitoring for equipment failures. Due to its built-in extended management features, including the network industry standard SNMP, the SISPM1040-182D-LRT will alert system administrators when problems are detected, ensuring rapid, pinpoint accurate diagnosis. This improves service to the customers served by the network.

To cope with the outdoor temperature extremes of diverse geographic locations the SISPM1040-182D-LRT is rated for operation between -40 and 65 degrees C, allowing it to be installed in traffic junction boxes adjacent to the side of the road. Other features ensuring network reliability include redundant DC power inputs and dual 10/100/1000BASE-T or 100/1000BASE-X Fiber uplink ports. These ports can be set up in a redundant ring topology as shown in Figure 1.

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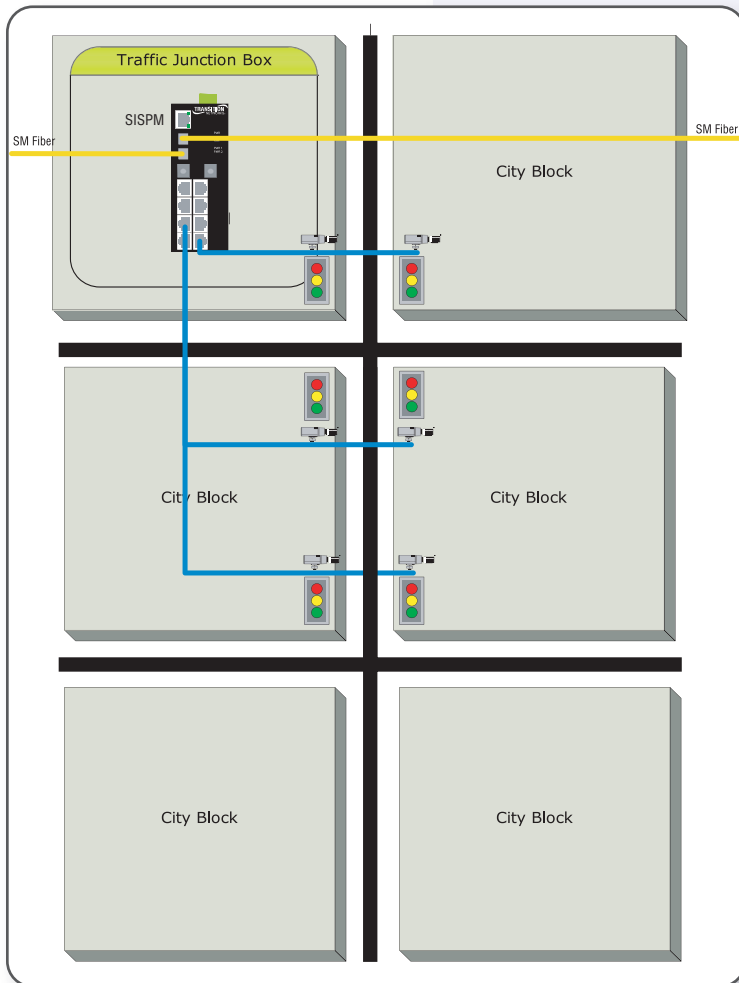


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1-800-526-9267
info@transition.com
www.transition.com

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Figure 1



Featured Products

SISPM

As both Municipal and Intelligent Traffic Systems Engineers face the challenge of expanding their networks over distance to devices located outdoors, and as tightened government budgets increase their areas of responsibility, these groups simply cannot be everywhere at once to monitor equipment. Thankfully, the SISPM product family includes features to fully manage the network remotely, via Telnet, SNMP or a Web browser. Built-in IEEE 802.1Q (VLAN support) and IEEE 802.1P (Priority and Quality-of-Service) compatibility allow the SISPM series to fully support the requirements of high capability networks, further cementing its role as a critical building block beyond just providing power to the network edge.

In addition to all of these reasons to use IP in a traffic environment, using Transition Networks' managed industrial switch line allows for each segment of the link to be continuously monitored from a remote location via a web browser.

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