

TELECOM SOLUTIONS & SERVICES FOR POWER UTILITIES

Advanced Telecom solutions for Protection and Control applications

Pullnet's range of products and solutions respond to the challenges of the sector and especially to the new communication requirements of Smart Grids and Intelligent Transmission Networks.

Pullnet offers solutions that facilitate the implementation of intelligent networks, for which it has Ethernet/IP switching equipment in both layers 2 and 3, as well as Firewalls and Information Security solutions for automation applications.

ETHERNET/IP

SWITCH AGENT-2 S42R (LAYER 2)

IEC61850-3 & IEEE1613 Certified for power substation applications, this Line of Modular Switches comes with a combination of twenty four 10/100BASE-TX/FX/BX ports split in three slots – with up to eight ports in every slot –, plus four 10/100/1000BASE-TX and/or Gigabit SFP combo (1000BASE-SX/LX/BX) ports in a package. This Line of Switches functions at temperatures ranging from -40°C to 85°C (-40°F to 185°F). Fully manageable via SNMP, Web Browser, Telnet or Console port, this Line is designed to integrate 10/100Mbps networks into fibre optic Gigabit backbones. Four Gigabit SFP combo ports can be fibre optic or copper ports. This Line also supports Snooping, Multiple and Rapid Spanning Tree for Redundancy, QoS for priority queuing, and port mirroring. Users may choose among SNMP RMON, Web browser or Telnet for remote monitoring and configuration. It also supports rate control, which allows users to set the maximum bandwidth on each port individually.



ROUTER AGENT-3 L2/L3

AGENT-3 L2/L3 is a 28 port 100BaseTX/Gigabit/10Gigabit layer 2/3 managed industrial Ethernet switch. Provide Gigabit SFP slot, 10Gigabit SFP slot, which can negotiate the port rate and duplex mode with the device at the opposite end through self-negotiation. AC/DC products accept 88-430VDC or 80-305VAC power solutions as options. Adopt standard rack installation method, which is specially designed for extremely severe electromagnetic interference environment to meet the anti-interference requirements of power monitoring industry



- Support rear or front ports
- IEC 61850-3
- Bypass (optional)

OPTICAL AMPLIFIERS

Optical amplification system. Totally optical equipment that allows the transmission of any type of signal regardless of its speed, format or protocol. We have a wide variety, allowing for optimal reach for each scenario.



OPTICAL AMPLIFIER SOAC

OTHER PRODUCTS

ROUTER AGENT-3 v6 (LAYER 3)

Pullnet's AGENT-3 v6 provides a hardened 28-port Full-Gigabit managed switching platform that combines the benefits of Layer 3 routing protocols with robust management features and hardened specifications. With support for static routing, Routing Information Protocol (RIP) v1/v2, and Virtual Router Redundancy Protocol (VRRP), these switches provide outstanding flexibility and security in a cost-effective, high-performance package.



ROUTER AGENT-3 LR v7 (LAYER 3)

The AGENT-3 LR v7 provides a Hardened Full-Gigabit Managed 28-port switching platform that combines the advantages of Layer 3 routing protocols with robust management features and hardened specifications. With support for static routing, Routing Information Protocol (RIP) v1/v2, and Virtual Router Redundancy Protocol (VRRP), these switches deliver outstanding flexibility and security in a high performance and cost-effective package. In addition, this innovative device supports the IEEE 1588v2 standard, which defines the Precision Time Protocol (PTP), used to synchronize clocks throughout a packet-switched network.



ROUTER AGENT-3 v8 (LAYER 3)

Pullnet's AGENT-3 v8 is a hardened layer 3 switch/router, which allow for connecting networks. With multiple gigabit SFP connections for fiber along with a 10-gigabit backbone, this AGENT-3 v8 provides flexibility, speed, and reliability to support networks for urban infrastructure, transportation, security, and other areas. The AGENT-3 v8 is designed to operate at -40 to 75°C in harsh environments, and is IEC 61850 compliant.



INFORMATIC SECURITY

Family of Firewalls specially designed for electrical substation applications and other critical operating systems.

Implements all the protection principles of the IEC 62351 standard.

Extended range power. Optional dual source



FIREWALL AGENT-7 (LAYER 7)

AGENT FAMILY

The several Series of products that integrate our AGENT Family allow our clients to integrate in a highly reliable and straight forward way all the Ethernet and IP packet-oriented services required nowadays in their Operational networks, over a common infrastructure both at LAN and WAN levels.

SFP's

We offer a wide variety of optical transceivers for different applications. From 100 to 10G speeds, 850, 1350 and 1550nm wavelengths, and for MM and SM fiber.



SWITCH AGENT-2 S32D



SWITCH AGENT-2 S22E

FIBER OPTIC SOLUTIONS

MEDIA CONVERTERS

Compact solutions for the conversion of any type of communication interface to fiber optics. Optional local and remote management. Multiplexing capacity of various services on the same fiber. Extended range power. Optional dual source.

