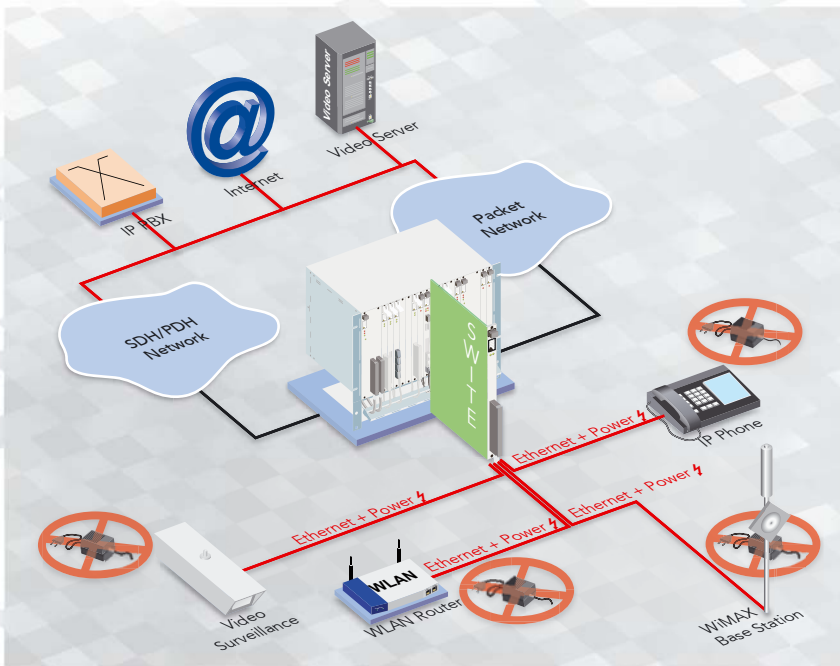


UMUX Ethernet Switch with PoE+ – SWITE

SWITE provides switching and Power over Ethernet Plus (PoE+) functionality in the UMUX platform



- 2 x 10/100BaseT PoE+ or 6 x 10/100BaseT PoE
- 2 x 1000BaseT SFP-based optical/electrical ports
- Advanced Layer2 switching functionalities
- Indoor and outdoor PoE powered devices

Generic PoE Application with UMUX SWITE

SWITE enhances the Ethernet-based solutions provided by the UMUX platform while coexisting with TDM-based services. In addition, SWITE addresses the need for Ethernet connectivity on locations where powering facilities are not easily accessible.

■ Ethernet switching in UMUX

TDM-based networks and their different employments are increasingly in the need to provide packet-based services with Ethernet. These networks

must be migrated in a way that allows them to provide switched Ethernet services while maintaining also very critical TDM services.

Moreover, it is mandatory for the networks to maintain the reliability and quality of Ethernet services for their customers; therefore PDH and SDH technologies are used for transport as they are considered the most suitable technologies. Ethernet over SDH (EoS) is widely used as the transport technology of choice for critical Ethernet services, while also sharing the

available bandwidth with TDM services.

It is for these applications that the UMUX platform provides an exact fit, by allowing PDH, SDH and Ethernet technologies to coexist on the same platform.

■ Advanced Layer2 switching functionality

SWITE provides switching with advanced Layer2 functionalities like traffic prioritisation, VLAN tagging, VLAN tag stacking, STP/RSTP and TLS services. This new functionalities allows switched

Ethernet services to be provided from the UMUX. The SWITE unit works in conjunction with other UMUX units, delivering a comprehensive solution for switched services and their transport via Ethernet or SDH.

■ Power over Ethernet Plus

On many locations, Ethernet connections must be provided to a variety of devices like video cameras, IP telephones, access systems, wireless access points, and so forth. Sometimes, providing a power outlet to these devices would imply additional investment to get the infrastructure in place.

In these cases, having the power delivered to the devices using the Ethernet cable is of great advantage.

Additional to providing power without the need for additional infrastructure, PoE installations also allow having a single centralised back-up system in the case of power failure. The backup for the telecommunication equipment also serves as the backup for all the devices powered by it.

Some of the applications that can be served by PoE capabilities are the following:

- Video surveillance
- Security access control
- Voice over IP telephony

- Local wireless networks (WiFi Hotspots, WIMAX)
- Industrial automation

SWITE provides an embedded PoE and PoE+ capability which solves the issue of lack of powering infrastructure, plus the advantage to make installations of this type a lot faster and nimble.

■ Management System

The UMUX management and the variety of services are administered centrally by UCST/UNEM. Operators save costs and accelerate the provisioning process with only one element manager for all service types.

Technical Data

General	
Ports	6 x 10/100BaseT user ports 2 x SFP based 100/1000BaseT trunk ports
Backplane	No access to PBUS or SBUS for traffic
Power over Ethernet	
PoE	802.3af
PoE+	802.3at, max. 2 ports with up to 60W total
Layer 2 Features	
VLAN support	VLAN tagging (IEEE 802.1Q), port-based VLAN Q-in-Q (IEEE 802.1 ad)
Spanning tree	STP (IEEE 802.1D) on trunk ports RSTP (IEEE 802.1w) on trunk ports
Class of service	CoS (IEEE 802.1p)
Performance	Switching capacity 5.15 Gbps Forwarding rate 540 kbps
Others	MAC table size = 2048 entries Max MTU size = 2000 bytes
Management	
UCST	For local management
UNEM	For central management
Power Supply	
Input voltage nominal (min/max)	-48/-60VDC (-40.5VDC ... -72VDC)
Operation Environment	
Temperature range and humidity	According to UMUX environmental specifications



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