

# MILITARY LAN SWITCH PE-3010

8 port 10/ 100 MB high-performance Layer 2 lan switch. MIL-STD 1275B /461C-D-E/810E Compliant

# PE-3010



#### Product Description:

PERYPHON® PE-3010 is a high-performance managed Layer 2 switch and is an important part in tactical communication system for use with ground, airborne and seaborne service. The PE-3010 has (8) 10/100Mbps Fast Ethernet ports.

#### Product Features:

3.8Gbps Switching capacity  
Bandwidth Control down to 64k  
Secure Management through SSH, SSL, TACACS+ Authentication, and RADIUS

#### Advanced Layer 2 Switching:

With a 3.8Gbps switch fabric, support for Private VLANs , Guest VLANs

By widely supporting IEEE approved specifications, the PE-3010 leverages your existing investment in a multi-vendor environment, while maximizing compatibility of critical features like, Spanning Tree (802.1d/w/s), QoS (802.1p), Port mirroring, and network management.

Support for standards based network management protocols (SNMP/RMON/BOOTP/Telnet/Web and port mirroring) enabling the PE-3010 to be easily integrated into many third-party network management packages.

#### Advanced Enterprise Features:

QoS/CoS based on (802.1p, port, DSCP and TOS), rich security and management features such as 802.1x (Port & MAC Based Authentication), bandwidth control, and Guest VLANs. Supports many of the features you would expect to see on a larger managed solution such as: IGMP snooping, 802.3ad (Link Aggregation), 256 VLANs, Private VLANs, support for GVRP, traffic monitoring, SSH, SSL, SYSLOG, and more.

#### MIL-STD Compliant:

Temperature operation/storage - MIL-STD 810E Compliant  
Vibration operation/storage - MIL-STD 810E Compliant  
Humidity operation/storage - MIL-STD 810E Compliant

#### Integrated power supply:

Voltage operation - 9...36 VDC (24 V 0.35A) - MIL-STD 704A-D/ MIL-STD 1275A-B /MIL-STD 461C-D-E Compliant

#### MIL-STD Connectors:

LAN Connectors - MIL-STD Compliant D38999 III 24W35SN  
Power Connector - MIL-STD Compliant D38999 III 24W98PN

#### Physical and Environmental:

Dimensions - 209 x 195 x 74 mm  
Weight - 2,6 kg  
Operation temperature range: -15 C ...+60 C

NOTES



PART No. PE-3010		SCALE: 1:404	
SCD-LAN-SWITCH 3010		REV No.	
DWS No. PE-31000		SHEET 1 OF 1 A3	
RELEASE DATE: 02/20/2007		REV DATE: 02/20/07	

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PERYPHON® PE-3010 is a high-performance managed Layer 2 switch and is an important part in tactical communication system for use with ground, airborne and seaborne service. The PE-3010 has (8) 10/100Mbps Fast Ethernet ports and MIL-STD 1275B /704A/461C-D-E/810E Compliant.

## Advanced Layer 2 Switching:

With a 3.8Gbps switch fabric, the PE-3010 is a wire-speed, high performance switch. It includes support for Private VLANs (for isolating ports to protect privacy), and Guest VLANs (for temporary and limited access).

Guest VLANs are useful when migrating end users to an 802.1x environment when existing workstations do not yet support the 802.1x protocol, and for delivering limited services such as Internet access to unauthenticated and short-term users.

PE-3010 can be used in conjunction with wireless Access Points to create a secure Hot Spot, allowing visitors to access special services or surf the Internet, completely isolated from sensitive internal network data.

By widely supporting IEEE approved specifications, the PE-3010 leverages your existing investment in a multi-vendor environment, while maximizing compatibility of critical features like, Spanning Tree (802.1d/w/s), QoS (802.1p), Port mirroring, and network management.

PERYPHON's PE-3010 has robust support for standards based network management protocols (SNMP/RMON/BOOTP/Telnet/Web and port mirroring) enabling the PE-3010 to be easily integrated into many third-party network management packages.

## Advanced Enterprise Features:

The PE-3010 brings advanced enterprise functions to a more affordable level while supporting advanced features: QoS/CoS based on (802.1p, port, DSCP and TOS), rich security and management features such as 802.1x (Port & MAC Based Authentication), bandwidth control, and Guest VLANs. The PE-3010 also supports many of the features you would expect to see on a larger managed solution such as: IGMP snooping, 802.3ad (Link Aggregation), 256 VLANs, Private VLANs, support for GVRP, traffic monitoring, SSH, SSL, SYSLOG, and more.

## Product Specifications:

PE-3010 - Managed Layer 2 Switch with (8) 10/100Mbps Ports  
MAC Address Table Size - 4k  
Switch Fabric - 3.8Gbps  
Transmission method - Store-and-Forward  
Forwarding Rate - 14,880pps (10M), 148,800pps (100M)  
VLANs - Support up to 256 VLAN Groups  
Priority Queues - 4 Queues  
Packet Buffer - 28 KB  
Multicast Support - IGMP Snooping  
LAN Connectors (10BASE-T, 100BASE-TX) - MIL-STD Compliant D38999 III 24W35SN  
Power Connector - MIL-STD Compliant D38999 III 24W98PN  
Power LED - MIL-STD Compliant "RED" color  
MTBF - 170 000 hours, 18 years  
Mounting - Vertical/ Horizontal

## Network Management:

In Band & Out of Band - Telnet, CLI/Console, RMON, Web-based HTTP, SNMPv1/2/3, Port Mirroring, SSH, SSL

## Network Protocol and Standards:

TCP/IP, UDP, VoIP Full Compliant, IEEE - 802.3 Ethernet, 802.3u Fast Ethernet, 802.1D Spanning Tree, 802.1w Rapid Spanning Tree, 802.1s Multiple Spanning Tree, 802.1p Priority Tags (4 queues), 802.3ad Link Aggregation Control (8 ports per group/ 6 groups per device), 802.3x Flow Control, 802.1x (Port & MAC Based Network Access Control), 802.1Q VLANs (up to 256), Private VLANs, Guest VLANs

## IETF:

RFC1757 RMON (4 Groups), RFC1493 Bridge, RFC1643 Ether-like MIB, RFC2358 ETHER LIKE\_MIB, RFC2674

## Additional Feature:

IGMP Snooping, Telnet, TFTP Client, BootP Client, DHCP Client, SNMP v1/2/3, Rate Limiting down to 64k, QoS classification based on TOS, Traffic Monitoring, MAC address browsing, Port Description, CPU Utilization Monitoring, SNMP, RADIUS Authentication, TACACS+ Authentication, Auto-Negotiation, Port Mirroring, Broadcast Storm Control, SYSLOG, GVRP

## Safety Agency Certifications:

Safety - CSA International

## Physical and Environmental:

Dimensions - 209 x 195 x 74 mm  
Weight - 2,6 kg  
Temperature operation/storage, Vibration operation/storage, Humidity operation/storage - MIL-STD 810E Compliant  
**Voltage operation:**

9...36 VDC (24 V 0.35A) - MIL-STD 704A-D/ MIL-STD 1275A-B /MIL-STD 461C-D-E Compliant  
Input power - 8 watt

## Configuration option:

- 8 ports Fast Ethernet 10/100 Mbps (main configuration)  
- 7 ports Fast Ethernet 10/100 Mbps + 1 port 10/100/1000 Mbps  
- 7 ports Fast Ethernet 10/100 Mbps + 1 fiber optic port (1GB)  
- 7 ports Fast Ethernet 10/100 Mbps + RS232 console port



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