



ACCADEMIA DI BELLE ARTI DI BRERA

## **ALLEGATO E - CAPITOLATO TECNICO** **CARATTERISTICHE RICHIESTE PER GLI SWITCH L3**

### **GARA D'APPALTO INFORMALE RELATIVA ALLA FORNITURA, INSTALLAZIONE E MONITORAGGIO DI UNA RETE WIRELESS CONFORME AGLI STANDARD 802.11 A/B/G/N PER IL POTENZIAMENTO DELLA COPERTURA DELLA SEDE CENTRALE DELL'ACCADEMIA DI BELLE ARTI DI BRERA.**

Performance:

- 32 Gbps forwarding bandwidth;
- 6,5 Mpps forwarding rate based on 64-byte packets;
- 16 MB Flash memory;
- configurable up to 12,000 MAC addresses;
- configurable up to 11,000 unicast routes;
- configurable up to 1000 IGMP groups and multicast routes;
- configurable maximum transmission unit (MTU) of up to 9000 bytes, with a maximum Ethernet frame size of 9018 bytes (jumbo frames), for bridging on Gigabit Ethernet ports, and up to 1546 bytes for bridging of Multiprotocol Label Switching (MPLS) tagged frames on 10/100 ports.

Connessioni ed interfacce supportate:

- 10BASE-T ports: RJ-45 connectors, two-pair Category 3, 4, or 5 unshielded twisted-pair (UTP) cabling;
- 10BASE-T PoE ports: RJ-45 connectors, two-pair Category 3, 4, or 5 UTP cabling power pins 1,2 (negative) and 3,6 (positive);
- 100BASE-TX ports: RJ-45 connectors, two-pair Category 5 UTP cabling;
- 100BASE-TX PoE ports: RJ-45 connectors, two-pair Category 5 UTP cabling, power on pins 1,2 (negative) and 3,6 (positive);
- 1000BASE-T ports: RJ-45 connectors, four-pair Category 5 UTP cabling;
- 1000BASE-T SFP-based ports: RJ-45 connectors, four-pair Category 5 UTP cabling;
- 1000BASE-SX, -LX/LH, -ZX, and CWDM SFP-based ports: LC fiber connectors (single/multimode fiber);
- management console port: RJ-45-to-DB-9 cable for PC connections; for terminal connections, RJ-45-to-DB-25 female data-terminal-equipment (DTE) adaptor.

Alimentazioni:

- supporto per alimentazione interna 100-240 VAC;
- possibilità di alimentazione ridondata (esterna o interna).

Indicatori:

- per-port status: Link integrity, disabled, activity, speed, full-duplex;
- system status: System, RPS, link status, link duplex, link speed.

Caratteristiche fisiche:

- dimensioni: una rack unit per 38cm di profondità massima;
- peso: massimo 6,2 Kg (senza alimentazione ridondata);
- operatività: da -0°C a +45°C;
- rumore: 38-44dBa max;
- MTBF: 186.300 ore;
- power rating: 0.520 kVA.

Standard supportati:

- IEEE 802.1s;
- IEEE 802.1w;
- IEEE 802.1x;



- IEEE 802.3ad;
- IEEE 802.3af;
- IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports;
- IEEE 802.1D Spanning Tree Protocol;
- IEEE 802.1p CoS Prioritization;
- IEEE 802.1Q VLAN;
- IEEE 802.3 10BASE-T specification;
- IEEE 802.3u 100BASE-TX specification;
- IEEE 802.3ab 1000BASE-T specification;
- IEEE 802.3z 1000BASE-X specification;
- 1000BASE-X (SFP);
- 1000BASE-SX;
- 1000BASE-LX/LH;
- 1000BASE-ZX;
- 1000BASE-CWDM SFP 1470 nm;
- 1000BASE-CWDM SFP 1490 nm;
- 1000BASE-CWDM SFP 1510 nm;
- 1000BASE-CWDM SFP 1530 nm;
- 1000BASE-CWDM SFP 1550 nm;
- 1000BASE-CWDM SFP 1570 nm;
- 1000BASE-CWDM SFP 1590 nm;
- 1000BASE-CWDM SFP 1610 nm;
- RMON I and II standards;
- SNMPv1, SNMPv2c, and SNMPv3;

Certificazioni di sicurezza:

- UL 60950-1, First Edition;
- CUL to CAN/CSA 22.2 No. 60950-1, First Edition;
- TUV/GS to EN 60950-1, First Edition;
- CB to IEC 60950-1 with all country deviations;
- AS/NZS 60950-1, First Edition;
- NOM (through partners and distributors);
- CE marking.

