

Technical Specifications for Fiber Optic Switch Bidding

Article Overview

Fiber optic switch bids require compliance with industry standards, modular connectivity, multi-rate SFP/SFP+ support, and integration with existing network infrastructure.

Core Technical Requirements

Port Configuration and Connectivity

- o Switches should support at least 24x 100M/1G Base-T ports and 4x 1G/10G SFP+ ports, with the ability to accommodate both 1G and 10G uplink modules as needed .
- o Compatibility with existing network switches (e.g., Extreme Networks) and the same operating system is essential for seamless integration .
- o Accessories such as patch panels, CAT-6 cabling, faceplates, jacks, and labeling must be included in the bid and conform to relevant standards .
- o Standards and Compliance
 - o Switches and associated fiber optic components must comply with IEC 61754 connector standards and VDE 0800-730 guidelines for in-building installations .
 - o Attenuation values should be below 0.35 dB, and modular splice systems should support a minimum of 96 fibers per 1HE .
 - o Regulatory compliance with the EU Gigabit Infrastructure Regulation (GIA) and local procurement laws (e.g., DTVP, EVB-IT in Germany) is required for public tenders .
- o Performance and Features
 - o Support for hot-swappable SFP/SFP+ modules to allow upgrades without downtime .
 - o Digital optical monitoring (DOM) for diagnostics and interoperability with multiple 10GBASE interfaces (XENPAK, X2, XFP) is recommended .
 - o Industrial-grade modules (e.g., Cisco SFP-10G-ZR-I) may be required for extended temperature ranges (-28°C to 85°C) and long-distance single-mode fiber links up to 70-80 km .
- o Support and Maintenance
 - o Vendors must provide active support contracts and 24x7 assistance via toll-free numbers .
 - o Integration with existing Network Management Software (NMS) is mandatory from day one .

Documentation and Installation

- o Bids should include a legally compliant bill of quantities, installation procedures, and all minor civil works required for proper deployment .
 - o Fiber optic lines should be classified as non-intrinsically flammable to allow cost-effective installation without fire-protection conduits .
 - o Optional Enhancements
 - o Multi-rate modules for flexible deployment (10GBASE-ZR, 10GBASE-ZW, OTU2/OTU2e) for long-haul connectivity .
 - o Modular design for future scalability and high-density rack deployment .
- By ensuring compliance with these specifications, bidders can prepare a technically robust and legally compliant proposal for fiber optic switch tenders, meeting both performance and regulatory requirements.

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Vendor/Supplier's Signature : Firm's Stamp :

3.2.6 Tools and Tackles: The vendor shall bring all tools, tackles and accessories required for installation, testing and commissioning

Fiber-optic switches generally allow for rerouting optical signals in fibers, mainly in optical fiber communications.

Opelink manufactures high-performance fiber optic switches including MEMS, mechanical, and solid-state types. Explore 1xN, 2x2,

View the latest global tenders for fiber optic switch from Africa, the Americas, Asia, Australia, Europe, the Middle East, and other

Below is a sample search result showing the newly published government contracts and bids in fiber optics, cabling,

BIDDING DOCUMENTS FOR THE SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING AND ACCEPTANCE OF BRAND

Sample of each item must be provided for technical evaluation before bid opening.

Features Control signal choices for fiber optic switches include RJ-45, RS232, RS422, and TTL. Common

Technical Specifications Document For IT Equipments Core Switch Specification S Generic Requirements 1 Interface and

Minimum Technical Specifications To ensure quality, sustainability, maturity and reliability of system, the proposed core switch and

If the design is a corporate network, the design will probably include a fiber optic backbone connecting wiring closets which house

This document provides a technical specification for optical equipment for a fiber optic network. It describes the scope of work which

BILL OF MATERIAL & TECHNICAL SPECIFICATION OF NETWORK SWITCH General

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instructions: Vendor MUST furnish its

The document outlines the bidding process for the Supply, Delivery, and Installation of a Fiber Optic Network System - Phase 3 by

Data centre network switch Technical specifications ng are the technical specifications for the access and data centre network

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