

We are interested in procuring 01 No. 10 Gigabit Switch with the following specifications:

Sr. No.	Item	Description with Specifications
1	Device Type	Fully L3 managed switch with IPv6 support and stackable up to six devices or more
2	Ports Qty	24 port 10Gbps with 12x 10G base SFP+ ports populated
3	Port Expansion	The switch should support at least 2x 40G ports and each 40G ports should be convertible to 4 x 10G ports incase of Future expansion
4	Memory	
	CPU Speed	minimum 1.2 GHz
	Flash Memory	minimum 256 MB flash
	packet Buffer	Minimum 9 MB
5	Performance	
	Switching Capacity	Min 640 Gbps
	Switching Throughput	480 million pps or more
	MAC Address Table Size	128000 MAC addresses or more
	802.1Q Vlans	1K 802.1Q VLANS or more
	Networking Features	
	Routing Protocol:	Static routing support for both IPv4 and IPv6 packets, RIP V1/2, OSPF V1/2/3, VRRP and LLDP-Med.
	Communication Mode:	Half-duplex, full-duplex
	Ethernet convergence	Supports DCB requirements including PFC (802.1Qbb), ETS (802.1Qaz), DCBx, iSCSI TLV 2.2, iSCSI Optimization
	Vlans	Should support MAC and Protocol based VLAN, QinQ, Protocol, GVRP
	DHCP & BOOTP Array	Should support DHCP (UDP helper, relay)
	Multi Cast	IGMP v1/v2/v3 snooping; IGMP snooping for IP multicast support; IGMP Querier PIM-SM, PIM-DM
	Redundancy Protocols	STP, RSTP with Fast Link Support; MSTP; Spanning Tree optional features – STP root guard, BPDU guard, BPDU filtering; Dual firmware images; Cable diagnostics; SFP/SFP+ transceiver diagnostics
	Qos	Shall support Flow based Qos service, port based qos service, ACL Qos, RED/WRED, MAC based cos assignment, rate limiting and metering, DSCP
	Security Features	
		Should support 802.1x and Guest vlans

		Should support MAC based port security by number of MAC
		Should support Packet filtering at L2/L4 with flow based classification based on source MAC address, destination MAC address, source IP (IPv4/IPv6) address, destination IP (IPv4/IPv6) address, port, protocol, and VLAN.
		Up to 100 Access Control Lists (ACLs) supported with up to 1k rules per ACL
	Management Functions	
	Configuration	Should support CLI, WEB based, and SNMP v1/v2/v3 based managements
		Should support Sflow or equivalent technologies
		Should support management vlans and Port namings to each interfaces
		Should support Link Layer Discovery protocols
		Should support multiple configuration and system files
		Should support management function like Ping, Telnet, Tracert for both IPv4 and IPv6
	Authentication Method	Secure Shell (SSH), RADIUS, TACACS+
	Power	
	Power Device	AC Power Supply
	Voltage Required	AC 110/240 V ( 50/60 Hz )
	Features	Option to support Redundant Power System (RPS)

**Terms and Conditions:**

1. Separate Technical and commercial bids are required to be submitted in separate sealed envelopes otherwise the quotation will be rejected.
2. Sealed Quotations must reach the office Prof. H. Saran, Deptt. of CSE, IIT Delhi latest by 22<sup>nd</sup> March, 2013 16:00 PM.
3. Quotations received after due date and time are bound to be rejected.
4. The products will be used for educational purposes and not meant for resale. Any applicable academic institution discounts should be offered and stated.
5. Validity of quotation must be for Minimum 3 months.
6. Taxes, if any, should be clearly indicated.
7. Payment terms should be clearly mentioned.
8. Only INR Bids will be accepted..