

Ref. MMBL/HO/CSD/RFQ/2023/12/140

Subject: Request for Quotation (RFQ) for 02 Units of Network Switch for Modhumoti Bank Limited.

Technical Specification of switch for Modhumoti Bank

Features	Required Technical Specification	Bidder's Response
Brand	Internationally reputed top brand of Gartner Magic Quadrant Report	
Model	To be mentioned by the bidder	
Country of Origin	To be mentioned by the bidder	
Environmental	Maintain International Quality Environmental Safety standard	
3rd Party Test Certification	The proposed vendor must be in the Leader's/Challengers quadrant of the Wired & Wireless LAN Access Infrastructure Gartner Magic Quadrant for the last 3 years	
Quality	ISO 9001/9002 for manufacture	
Hardware and Interface Requirement	The switch should have minimum 24 port 10/100/1000 Ethernet ports and 4 port 1G SFP uplink.	
	Switch should have console port for local management & management interface	
	1 RU fixed form factor	
General Features	Proposed switch should be enterprise grade switch with x86 based / RISC base CPU architecture. CPU must be ARM v7 800 MHz.	
	The switch should support at least switching bandwidth at lesat 56 Gbps.	
	The switch should support at least 41 Mpps forwarding rate ((64-byte L3 packets))	
	The switch should support at least 28 Gbps forwarding Bandwidth.	
	Siwtch should have 512 MB DRAM and 256 MB Flash.	
	The siwtch should support 16K MAC Addresses and 4k VLAN IDs	
	The switch should support Jumbo frames of minimum 9,000 bytes (Must support Oracle latest database and upgraded versions)	
Redundancy and resiliency	Should support Switch port automatic recovery due to link failure/fault or network fault	
	Switch should support rapid spanning-tree reconvergence on a per-VLAN spanning-tree basis, without requiring the implementation of spanning-tree instances	
	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors	
L2 Features	The switch should support at least 256 VLANs	
	The switch should support Spanning-tree PortFast / equivalent and PortFast guard / equivalent for fast convergence	

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	The switch should support UplinkFast & BackboneFast technologies to help ensure quick failover recovery, enhancing overall network stability and reliability	
	The switch should support Spanning-tree root guard to prevent other edge switches becoming the root bridge.	
	The switch should support Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN	
	The switch should support Auto-negotiation on all ports to automatically selects half- or full-duplex transmission mode to optimize bandwidth	
	The switch should support Unidirectional Link Detection Protocol (UDLD) / equivalent and Aggressive UDLD / equivalent to allow for unidirectional links caused by incorrect fibet-optic wiring or port faults to be detected and disabled on fiber-optic interfaces.	
	The switch should support IGMP v1, v2 Snooping	
Network security features	The switch should support IEEE 802.1x providing user authentication, authorization and CoA.	
	Support Port Security, Dynamic ARP Inspection, and IP Source Guard	
	The switch should support TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users form altering the configuration.	
	Support Port-based ACLs, VLAN ACLs	
	Support IPv6 ACLs	
	Support Unicast Reverse Path Forwarding (RPF)	
Management features	Support diagnostic command and system health checks within the switch	
	Support Remote Monitoring (RMON) software with four RMON groups (history, statistics, alarms, and events).	
	support Layer 2 troubleshoot features	
	Support SSHv2, Telnet, console, NTP, DNS, TFTP, DHCP	
	Support RMON I and II standards	
	Support SNMP v1, v2c, and v3	
QoS	Support automatic configuration of QoS	
	Support eight egress queues and two thresholds per port,	



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	supporting egress bandwidth control, shaping, and priority queueing so that high-priority packets are serviced ahead of other traffic	
	Support felxible mechanisms for marking, classifying, and scheduling deliver superior performance for data, voice, and video traffic, all at wire speed	
	Support congestion avoidance feature like SRR/SRR/similar protocol	
	Support 802.1p class of service (CoS) and Differentiated Services Code Point (DSCP) classification, with marking and relcassification	
Manufacturer's part number	submitted BOQ of proposed device including the details part numbers	
Delivery	Time duration mentioned by the bidder. Ready stock preferred.	
Warranty	01 (One) year warranty for this unit.	