

**Technical Specification of 2 LAN/4x2 Mbps WAN Port Router**

S. No.	Generic Requirements
1	Router should be modular and should be a single box configuration fr ease of management
1.1	Should have integrated USB port/flash to provide console and storage for configuration/image
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2	<b>Hardware and interface requirements</b>
2.1	Routers should have at least 2 open slots for LAN, WAN modules
	<b>ROUTER SHOULD HAVE 4 numbers WAN ports supporting G.703 interfaces at 2Mbps</b>
2.2	Routers should support large selective of modular LAN and WAN connectivity options including Gigabit Ethernet and Fast Ethernet, Channelized T1/E1, V.35/G.703 Serial, 3G Wireless(Both HSPA and CDMA) interface modules.
2.3	Router should have minimum 2 nos. of 10/100/1000 Gigabit Ethernet ports & scalable up to 8 GE Ports for future use
3	<b>Performance Requirements</b>
3.1	The router should have a minimum performance of 200 Kpps for both IPv4 & IPv6
3.3	Should support other IP Services like GRE tunneling, ACLs, IPSEC VPNs, Firewalling, NAT services
4	<b>Quality of Service (QoS) requirements</b>
4.1	Routers should support Class-based queuing
4.2	Routers should support marking, policing and shaping
5	<b>routing protocol support</b>
5.1	Routers should have IPv4, IPv6, VRRP, Static Routes, RIPV1, RIPV2, OSPFV2, OSPFV3, IS-IS, BGP4, MBGP, BFD, Policy based routing, IPv4 and IPv6 tunnelling enabled from day one
6	<b>IPv4 &amp; IPv6 Multicast features</b>
6.1	IGMP v1/v2/v3, PIM-DM, PIM-SM, Source Specific Multicast (SSM), MLD V1, V2
7	<b>System Management and Administration</b>
7.1	Routers should support Configuration rollback
7.2	Should support extensive support for SLA monitoring for metrics like delay, latency, jitter, packet loss, RTP-Based VoIP traffic, CRTP
8	<b>Security features</b>
8.1	Routers should support AAA using RADIUS or TACACS+
8.2	Routers should support Packet Filters like: Standard ACL, Extended ACL, ACL that can match arbitrary bits of packet bits of a packet at an arbitrary depth in the packet header and payload
8.9	Routers should support Network address translation (NAT)
8.1	Routers should be minimum command criteria EAL4 certified
9	<b>Built-in troubleshooting</b>
9.1	Pre-planned scheduled Reboot Facility
9.2	Real Time Performance Monitor – service-level agreement verification probes/alerts
10	<b>Power Supply</b>
10.1	The router should support DC power supply. (48 volt DC)

4 Port Router

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