TJ1400P-M1/M2/M3/M4
Tejas Networks range of Ethernet Switch Offering

TEJAS NETWORKS®

Product Highlights

Technology: Layer2 & Layer3 Ethernet Switching

Performance: 10Gbps - 3.2 Tbps Full-duplex

Applications : Business, Industrial, Enterprise, Data Center, Campus, Service Provider Networks

Key Features and Benefits

Tejas portfolio of Managed switches has a wide coverage in terms of port-configurations, capacities, feature scalability and provide a rich palette to realize your network vision. All switches support Line rate forwarding and Jumbo packets suitable for video and file transfers.

There are three basic software feature sets supported (-LS, -S and –E) along with a rich feature set related to Quality of Service, Security and Management. IPv4 and IPv6 are supported at the Data, Control and Management layers.

Managed Layer2+ Feature Bundle (-LS): Ethernet Bridging using MAC learning is supported along with Spanning Tree Loop avoidance protocols and Link Aggregation capability. IGMP snooping allows the switches to provide efficient Multicast. The addition of Static Routing entries and a DHCP server is included to give basic inter-VLAN routing and IP-awareness to the network. Static Routing of traffic based on policies is also included for the M2,M3 and M4 range.

Carrier Ethernet and IP-Base Feature Bundle (-S): The Carrier Ethernet feature bring Ethernet OAM features (CFM, EFM, Y.1731) along with 50-ms ring protection (ERPS). IP-routing protocols (RIP, OSPF) with ECMP capabilities, Router Redundancy protocol (VRRP) with multi-cast routing using PIM make this feature set appropriate for the Distribution and Core layer.

Enhanced IP Feature Bundle (-E): Additional protocols like BGP and IS-IS required in large-scale and features like VRF-Lite that provide virtual networks to be created are available on M2/M3/M4 models. Data Center features (VxLAN etc.) are also included in this bundle.

**Security Features**: All switches provide Access Control Lists (ACLs) to support network security policies. Port Security using 802.1x along with RADIUS/TACACS+ authentication is standard on all switches to implement network access policies. Features like storm-control and Control Plane protection ensure that the network and devices are stable. DHCP snooping and ARP inspection features allow the switch to reject devices trying to spoof other authorized devices. Extensive logging of events and switch accesses are provided for alarms and forensics.

Quality of Service: All switches support the full range of 8 CoS queues per port. In addition there are multiple queues (depending on switch family) to provide Hierarchical QoS and flexible mapping of traffic to queues with Congestion control. Traffic can be policed and marked on Ingress and shaped on Egress on a per-port or per-service basis. Scheduling disciplines allow traffic to have Strict Priority or Weighted access to the Egress port.

Management: All switches support Local Management and Remote Management using secure, authenticated access using IPv4 or IPv6. Nodes are managed using SNMP, CLI or GUI and soon using a NETCONF/REST API for control by an SDN controller. The software can be upgraded via a variety of means and dual-images and persistent configurations are supported. Events and Alarms are logged locally as well can be sent to a Syslog Server. Traffic monitoring via RMON and sFlow are supported for Telemetry and Traffic can be mirrored to port(s) for online and offline analysis.

Power over Ethernet: All switches support PoE+ on all ports along with scheduling of PoE power delivery. In the M1 series lower PoE budget variants are available when lower price or fanless operation is desired

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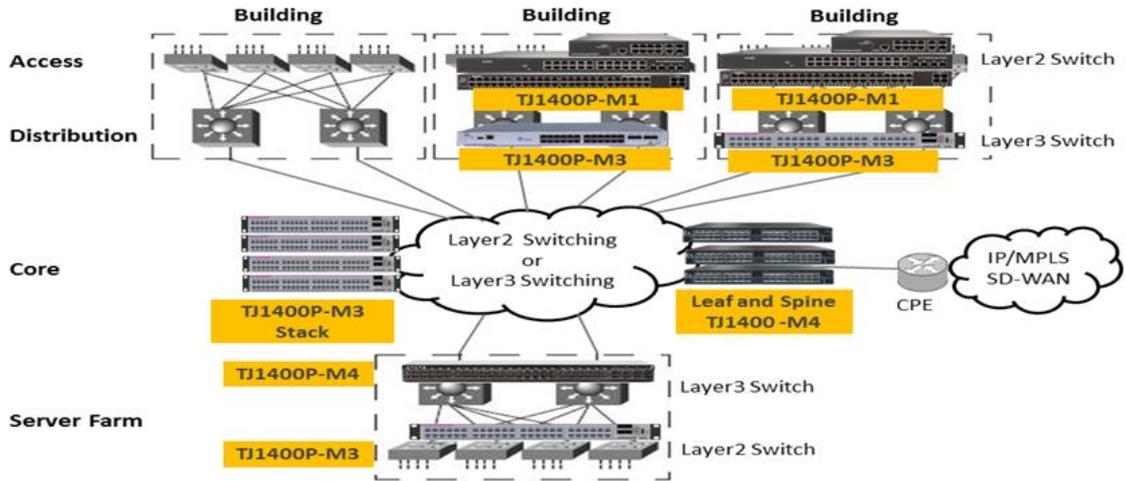
Model 1400P- XXXXXX XXXXX =	Gigabit			Power Budget	1/10G	1/10/25G	40/100G	Power Input	Software Licenses
	10/100/1000	SFP	PoE+		SFP+	SFP28	QSFP28		
M1-8TC	10/8	0/2						1 AC	-LS
M1-8PC, M1-8HPC	10/8	0/2	8	120,240				1 AC	-LS
M1-24TC	26/24	0/2						1 AC	-LS
M1-24LPC, M1-24PC	26/24	0/2	24	185,370				1 AC	-LS
M1-24S48		24						AC+DC	-LS
M1-48TS	48	4						1 AC	-LS
M1-48LPS, M1-48PS	48	4	48	370,740				1 AC	-LS
M1-24TD	24				4			1 AC	-LS
M1-24LPD, M1-24PD	24		24	185,370	4			1AC	-LS
M1-24SD	4 Combo	24			4			AC+DC	-LS, -Metro
M1-48TD	48				4			1 AC	-LS
M1-48MPD, M1-48PD	48			370,740	4			1 AC	-LS
M2-24TD, M2-24HPD	24		0,24	0.740	4			2 AC FRU	-LS, -S, -E*
M2-24SD		24							-LS, -S, -E*
M3-24TD, M3-24HPD	24		0,24	0,740					
M3-24SD		24					1 QSFP + 2 Stack QSFP28 Ports	2 AC FRU	-LS, -S, -E
M3-48TD, 48-PD	48		0,48	0,740	4				
M3-48SD		48							
M3-24T24SD	24	24							
M4-48DQ					48		8	2 AC FRU	-E
M4-48EQ						48	8	2 AC FRU	-E
M4-32U							32	2 AC FRU	-E

TEJAS ® NETWORKS
Software-Enabled Transformation