

TITAN NETWORKING SERIES

SIMPLE, MULTICAST NETWORKING

TTN-4450 FAMILY

KEY FEATURES



PORT DENSITY:
50 PORTS



FIVE YEARS + 24/7
SUPPORT



STACKABLE CHASSIS



MULTICAST
NETWORKING



VERTICAL MARKETS:

A reliable, simple setup solution, the BCD-TTN-4450 provides stackable multicast switches. The series is perfectly suited to the unique requirements of the security market.



The Titan Networking Series is a series bringing simple, enterprise networking solutions for your security project. Powered by Avaya Networking, the 4450 Family offers a 50 port, stackable solution. The BCD-TTN-4450 is designed for projects that require scalability. Built for multicast networking with Shortest Path Bridging, these switches also have a five year warranty and 24/7 support. BCDVideo and Avaya - bringing simple solutions to the security market.

	RJ45 PORTS	FIBER SFP PORTS	GIGABIT PORTS	WEIGHT
BCD-TTN-4450F-POE+	12 ports Gigabit Ethernet with PoE+	36 SFP ports	2 ports of 1/10 Gigabit SFP+ ports	20.3 lb/9.20 kg (max)

	POWER CONSUMPTION	THERMAL RATING (OUTPUT)	MAXIMUM POE BUDGET	MTBF	UPC
BCD-TTN-4450F-POE+	140 Watts (max)	383 BTU/hr (max)	1440 Watts	311,104 hrs	859407006067

SYSTEM CPU SPEED	SYSTEM MEMORY	INPUT POWER	SWITCH FABRIC PERFORMANCE	FRAME FORWARDING RATE	REDUNDANT POWER
1.2GHz	2GB	100-240VAC	184Gbps	184Gbps	Available

RACKMOUNT BRACKETS	STANDALONE	CHASSIS	HEIGHT	WIDTH	DEPTH
(1) 19"/44 mm set	Capable	1U Rackmount	1.75"/44.5 mm	17.30"/440 mm	18.25"/464 mm

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GENERAL		
Frame length: 64 to 1518 Bytes (802.1Q Untagged), 64 to 1522 bytes (802.1Q Tagged) Jumbo Frame support: up to 9.6 KBytes Latency (64-byte packets): 9 microseconds RSTP, MSTP VRRP Backup Master IPv4 and IPv6 Routing Policy Based Routing	Ingress & Egress Port ACLs Ingress VLAN ACLs Enterprise Device Manager GUI, on-box & offbox Configuration & Orchestration Manager Virtualization Performance & Fault Manager Virtualization Provisioning Service System Logging Mirroring: 1:1 / 1:M / M:1 / M:M	Key Health Indicators Flight Recorder Auto MDIX MACsec (VSP 4450GSX-PWR+ only) TACACS+ SLAMon agent
LAYER 2		
F MAC Address: 32,000 Port-based VLANs: 4,059 Private VLANs/E-Tree: 1,000	MSTP Instances: 12 MLT/LACP Groups: 50 MLT Links per Group: 8	LACP Links per Group: 8 Active Avaya VLACP Instances: 50 Avaya SLPP Instances: 128
LAYER 3 IPV4 ROUTING SERVICES		
ARP Entries: 6,000 Static ARP Entries: 200 per VRF, 1,000 per switch IP Interfaces: 256 CLIP Interfaces: 64 IP Routes: up to 16,000 IP Static Routes: 1,000 per VRF, 1,000 per Switch	RIP Interfaces: 24 RIP Routes: up to 16,000 OSPF Interfaces: 100 OSPF Routes: up to 16,000 OSPF Areas: 12 per VRF, 64 per Switch BGP Peers: 12 BGP Routes: up to 16,000 ECMP Groups: 500	ECMP Paths per Group: 4 VRRP Interfaces: 64 or 24 with fast timers RSMLT Interfaces: 252 IP Route Policies: 500 per VRF, 5,000 System-wide VRF Instances: 24
LAYER 3 IPV6 ROUTING SERVICES		
Neighbors: 4,000 Static Neighbors: 128 IP Interfaces: 256 CLIP Interfaces: 64 IP Configured Tunnels: 254 IP Routes: up to 8,000	IP Static Routes: 1,000 RIPng Interfaces: 48 RIPng Routes: up to 8,000 OSPFv3 Interfaces: 48 (24 of these can be passive) OSPFv3 Routes: up to 8,000	OSPFv3 Areas: 64 per switch ECMP Groups: 500 ECMP Paths per Group: 4 VRRP Interfaces: 64 or 24 with fast timers RSMLT Interfaces: 252

MULTICAST	QoS & FILTERING
IGMP Interfaces: 4,059 PIM Active Interfaces: 128 PIM Passive Interface: 256 PIM-SSM Static Channels: 512 IP Multicast Streams: 4,000	IPv4 ACE: 1530 Ingress and 254 Egress IPv6 ACE: 256 Ingress QoS priority queues: 8
	OPERATIONS & MANAGEMENT
	Mirrored Ports: 4

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FABRIC CONNECT

802.1aq/RFC 6329 Shortest Path
Bridging with Avaya extensions
MAC Address: 16,000
IS-IS Adjacencies: 50

BCB/BEB Nodes per Region: 2,000
BEB Nodes per VSN: 2,000
L2 Virtual Service Networks: 1,000
L3 Virtual Service Networks: 24

IP Shortcut Routes: IPv4 up to 16,000,
and IPv6 up to 8,000
L2 Multicast Virtual Service Networks: 1,000
L3 Multicast Virtual Service Networks: 24

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0°C to 50°C (32°F to 122°F)
Storage temperature: -40°C to 85°C (-13°F to 158°F)
Operating humidity: 0 to 95% maximum

relative humidity, non-condensing
Storage humidity: 10 to 90% maximum
relative humidity, non-condensing
Operating altitude: 0 to 3,048m (0 to 10,000ft) maximum

Storage altitude: 0 to 12,192m (0 to 40,000ft) maximum
Acoustic Noise:
less than 50dbA at 35°C
less than 57dbA at 50°C