

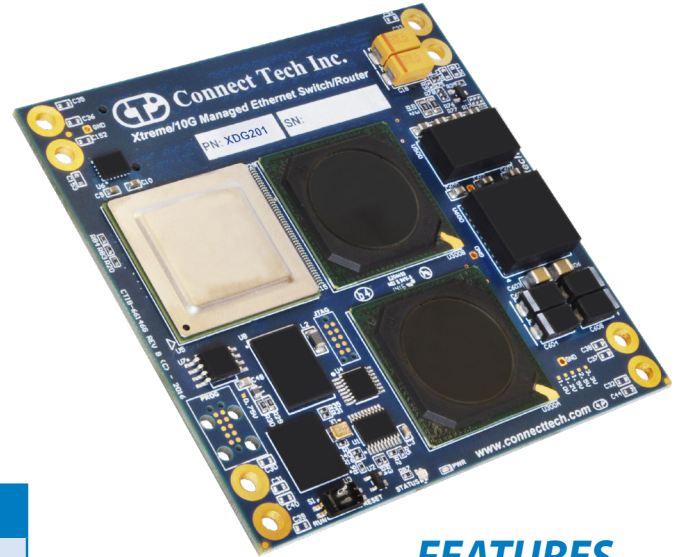


Xtreme/10G Managed Ethernet Switch/Router

Connect Tech's Xtreme/10G Managed Ethernet Switch/Router provides high density, high port count Layer 2 switching and Layer 3 routing with 10G uplinks. A total of 36 switchable ports, with 4 x 10G, 8 x 1G (SGMII), and 24 x 1G (Copper 10/100/1000Mbps) ports in an extremely small form factor 85mm x 85mm.

The device targets managed Layer 2 and Layer 3 equipment in SMB, SME, and industrial applications where high port count 1G switching with 10G aggregation/uplinks are required.

Product Name: Xtreme/10G Managed Ethernet Switch/Router
Part Numbers: XDG201, XDG201-01



Specifications

Ethernet Switch Engine	Vitesse VSC7448 Carrier Grade Ethernet Switch Chipset
Ports	36 Total Switching Ports <ul style="list-style-type: none"> • 4x 10G (SFI) Ports • 8x 1G (SGMII) Ports • 24x 1G (Copper 10/100/1000Mbps) Ports
Memories	<ul style="list-style-type: none"> • 4Gb DDR3 SDRAM • 128Mb Serial NOR Flash
I/O Connectors	High-Density 440-pin Board-to-Board Connector
Layer 2 & Layer 3 Forwarding	<ul style="list-style-type: none"> • IEEE802.1Q switch with 4K VLANs and 32K MAC table entries • Push/pop up to 3VLAN tags on ingress and egress • RSTP and MSTP support • Fully non-blocking wire-speed switching performance for all frame sizes • IPv4/IPv6 unicast and multicast Layer 2 switching with up to 32K groups and 1K port masks • IPv4/IPv6 unicast and multicast Layer 3 forwarding (routing) with reverse path forwarding (RPF) support • IGMPv2, IGMPv3, MLDv1, and MLDv2 support • Link aggregation (IEEE 802.3ad) • Independent and shared VLAN learning (IVL, SVL) • Jumbo frame support
Quality of Service	<ul style="list-style-type: none"> • Four megabytes of integrated shared packet memory • Eight QoS classes with a pool of up to 32K queues • TCAM-based classification with pattern matching against Layer 2 through Layer 4 information • Dual-rate policers selected by VCAP IS2, eight single-rate priority policers per port, and four single-rate port policers for each port • Flexible 4K ingress QoS mappings and 8K egress QoS mappings for VLAN tags and DSCP values • Up to 4K egress VLAN tag operations • Audio/ video bridging (AVB) with support for time-synchronized, low-latency and video streaming services • Priority-based flow control (PFC) (IEEE 802.1Qbb)
Security	<ul style="list-style-type: none"> • Vitesse Content Aware Processor (VCAP™) packet filtering engine using ACLs for ingress and egress packet inspection • Storm controllers for flooded broadcast, flooded multicast, and flooded unicast traffic • Per-port, per-address registration for copying/redirecting/discarding 32 VCAP single-rate policers

FEATURES

- ✓ 36 switchable ports (4x 10GbE; 8x 1GbE [SGMI]; 24x 1GbE)
- ✓ High-density board-to-board connector
- ✓ +4V to 14V input range
- ✓ 85mm x 85mm module
- ✓ -40° C to +85° C

RoHS

Specifications subject to change without notice.
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Product Name: Xtreme/10G Managed Ethernet Switch
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XDG201-01 - XDG201 Switch with XHG201 Heatplate installed

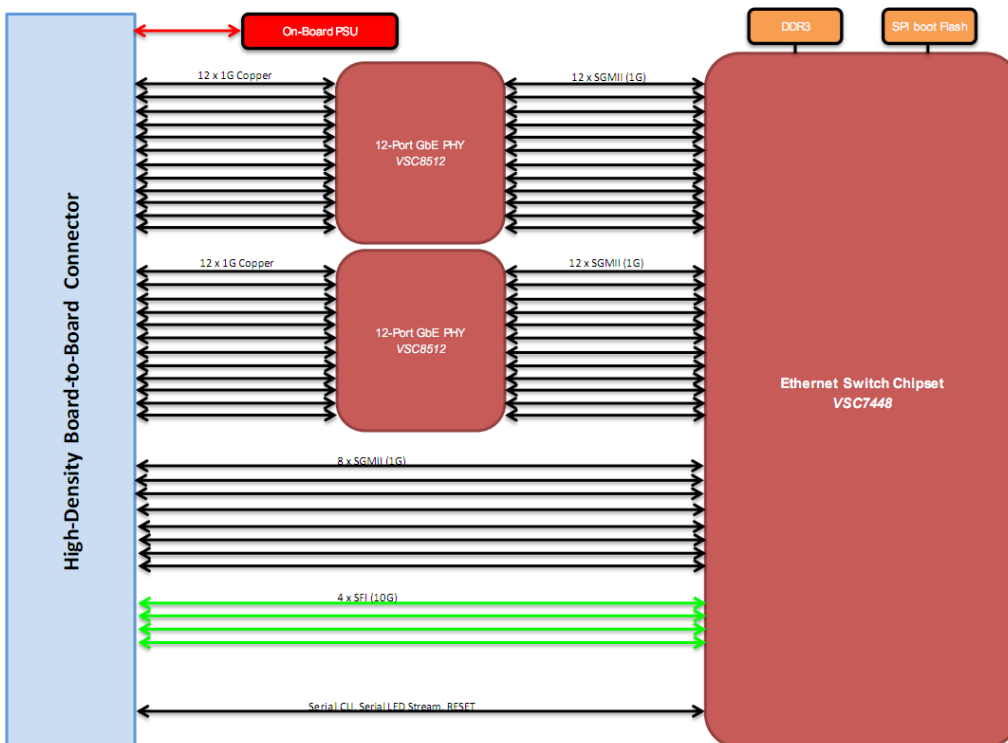
Also Shown: XBG301 Development Breakout Board (Sold separately)



Specifications	
Maximum Bandwidth	80Gbps
Layer 2 Switching Parameters	<ul style="list-style-type: none"> • Packet Buffer: 32Mb • MAC Table Size: 32k • Layer 2 Multicast Port Masks: 1k • Super VCAP blocks: 8 • VCAP CLM entries: 4k • VCAP LPM entries: 4k/1k (IPv4/IPv6) • VCAP IS2 entries: 4k/1k (IPv4/IPv6)
Layer 3 Switching Parameters	<ul style="list-style-type: none"> • Router Legs: 128 • IP unicast routes/hosts: 4k/1k (IPv4/IPv6) • Next-hop/ ARP table entries: 2k • IP multicast groups: 2k/512 • Multicast router leg masks: 1k • ECMPs: 16
Management Access	Web Interface CLI via RS-232 Software API SNMP
Input Voltage	+4V to 14V Input Range (External Connector)
Power Consumption	24W Max / 14W Idle
Dimensions	85mm x 85mm
Operating Temp	-40°C to +85°C (chipset rated to +125°C thermals)
Warranty and Support	Limited One-Year Warranty and Free Technical Support

XBG301 Specifications

- Dimensions: 125.84mm x 167.07mm x 49.10mm (4.95" x 6.58" x 1.93") (when XDG201-01 + XBG301 are integrated)
- Connects to XDG201 to provide:
 - 4x 10G SFP+ Uplinks
 - 4x 1G SFP Ports
 - 24x Copper GbE Ports
 - RS232 Console port
 - +5V to +14V DC Power Input
 - Custom Design Available



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