

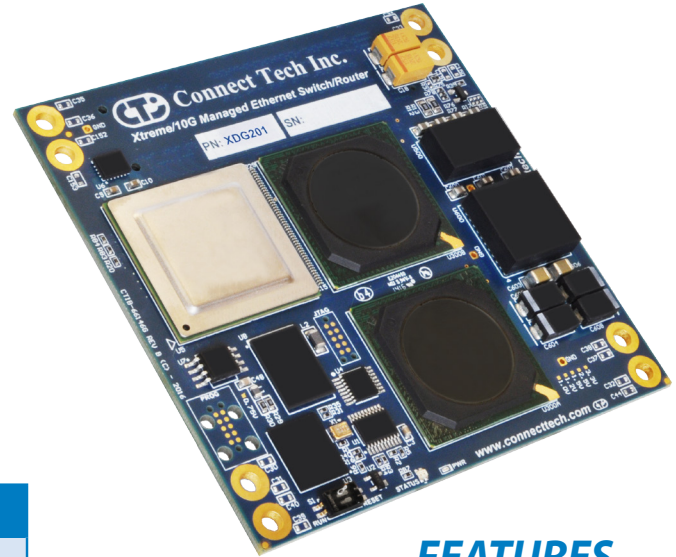


## Xtreme/10G Managed Ethernet Switch/Router

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 Number:** XDG201



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

## 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



Specifications subject to change without notice.  
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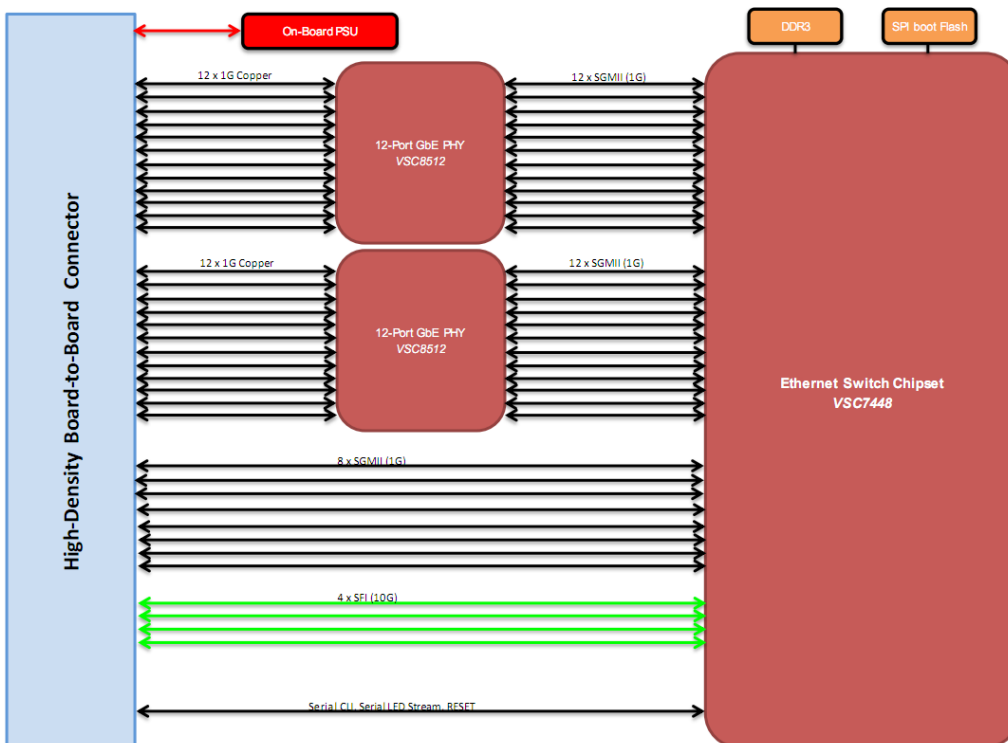
**Works with XBG301, Embedded Carrier**



Specifications	
Maximum Bandwidth	80Gbps
Layer 2 Switching Parameters	<ul style="list-style-type: none"> <li>• Packet Buffer: 32Mb</li> <li>• MAC Table Size: 32k</li> <li>• Layer 2 Multicast Port Masks: 1k</li> <li>• Super VCAP blocks: 8</li> <li>• VCAP CLM entries: 4k</li> <li>• VCAP LPM entries: 4k/1k (IPv4/IPv6)</li> <li>• VCAP IS2 entries: 4k/1k (IPv4/IPv6)</li> </ul>
Layer 3 Switching Parameters	<ul style="list-style-type: none"> <li>• Router Legs: 128</li> <li>• IP unicast routes/hosts: 4k/1k (IPv4/IPv6)</li> <li>• Next-hop/ ARP table entries: 2k</li> <li>• IP multicast groups: 2k/512</li> <li>• Multicast router leg masks: 1k</li> <li>• ECMPs: 16</li> </ul>
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

## Specifications

- Dimensions: 125.73mm x 167.13mm x 28.194mm (4.95" x 6.58" x 1.11")
- Connects to XDG201 to provide:
  - 4x 10G SFP+ Uplinks
  - 4x 1G SFP Ports
  - 24x Copper GbE Ports
  - RS232 Console port
- +12V DC Power Input
- Custom Design Available



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