BCM56860 Series

High Capacity StrataXGS® Trident-II+ Ethernet Switch Series

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Overview ▼

Overview

As server interfaces in the enterprise data center transition from 1 to 10GbE, and virtualization continues to increase link utilization, data center networks are demanding top-of-rack (ToR) switches with dense 10GbE ports and 100GbE connectivity to the spine layer.

With support for up to eight 100GbE ports and more than 100 10GbE ports, the StrataXGS® Trident-II+ switch series can be used to build highly scalable, lower power, feature-rich ToR switches. Together with spine switches built around the StrataXGS Tomahawk™ and StrataDNX™ switch series, the Trident-II+ series form the ideal combination to drive cloud scale networking adoption in the enterprise market.

In addition, fabrics of BCM56868 with BCM56860 devices can be interconnected via the HiGig2™ protocol to support multi-terabit chassis designs for large-scale data center, enterprise and service provider applications. The StrataXGS Trident-II+ switch with integrated SmartSwitch™ technology has been designed to address performance, capacity and service requirements for next generation data centers and cloud computing applications.

Features

- Single-chip solution for common fixed top-of-rack (ToR), aggregation and line-card switching applications
- Support for 100GbE uplinks (to connect to StrataXGS Tomahawk spine switches)
- Full performance VMWare® VXLAN and Microsoft® NVGRE tunneling protocol performance
- Up to 128x 10G integrated SerDes with Energy Efficient Ethernet for maximum port density per RU
- Standards compliant switch with support for up to 8 ports of 100 GbE, 32 ports of 40GbE or more than 100 ports of 1GbE/10GbE
- Drop-in, lower power upgrade for StrataXGS Trident II switches

Applications

- Routers
- Software-Defined Networking Solutions
- Switches

Lifecycle Status

Active

Specifications

Specification	Value
Lifecycle	Active
Distrib. Inventory	No
SerDes / GPHY	128 x 10G
I/O Bandwidth (Gbps)	1280
Bandwidth UOM	Gbps
Package	28nm, FPB4NGS, 29mmx29mm
PHY Type	100GE
I/O Controller	
Bus Interface	
Transfer Rates	
External Memory Interfaces	8-bit and 16-bit Flash, w/ 6 Chip Selects SRAM, NVSRAM
ASIC	
Link-Speeds	
Ports	
TruFlow™	
TruManage™	
Smart Congestion Control	
NPAR	
RoCEv2	
Multi-Host	
Smart NICs	
I/O BANDWIDTH (Gbps)	1280 Gbps

Optional Products

	BCM82109		BCM82181
	28nm Octal 25G/28G Unidirectional Repeater		28nm Octal 25G/28G Bidirectional Repeater

BCM53106

Multiport Ultra-Low Power Fast Ethernet Switch

PREVIOUSLY VIEWED

BCM84540

4x10G/1x40G LAN/WAN/OTN
Framer/Mapper/PHY With EDC

BCM89811

BroadR-Reach® Single-Port Automotive Ethernet
RGMII Transceiver

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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