

BCM88470

Contact Sales

300Gbps 10/100 Gigabit Ethernet StrataDNX® Qumran-AX Ethernet Switch Series

Currently Viewing:

Overview

Overview



Broadcom's BCM88470 Series, also known as the StrataDNX® Qumran-AX switch series, can help build highly scalable, feature-rich, centralized, fixed or modular aggregation switches to enable cloud-scale networking and Carrier network applications. The BCM88470 devices process up to 300 Gbps traffic, supporting up to 48 full-duplex 10G Ethernet (GE) ports, 16 full-duplex 40GE ports, or 4 full-duplex 100GE ports at Layer 2 through Layer 4 with integrated deep-buffer traffic management capabilities, and a fabric interface.

The BCM88470 series is based on the seventh generation of the Dune scalable switching product line.

It is used to build a variety of network switch solutions with flexible I/O interfaces, such as Ethernet or OTN.

Features

- High performance:
 - 300 Gbps full-duplex switching
- Mesh interface:
 - SerDes interface for back-to-back connection of two BCM88470 devices
- Flexible network interface:
 - 1GE, 2.5GE, 10GE, 40GE and 100GE interfaces
 - Support for a mix of OTN (ODU) and ETH ports on the same device
- Traffic manager:
 - Deep buffering, GDDR5/DDR4 DRAM-based
 - Large on-chip buffers
 - Hierarchical QoS
 - Programmable, hierarchical scheduling
- Flexible and microcode-programmable packet processor:
 - Bridging, routing, MPLS, VPLS, L2VPNs, L3VPNs, OAM
 - Data Center Tunneling Encapsulations including VXLAN, NV-GRE
- Built-in support for data center, carrier and metro Ethernet, and transport applications
 - Large on-chip tables with off-chip expandability
 - OAM accelerator engine
- OTN and TDM support:
 - Dedicated low delay pipe for TDM/OTN traffic
 - Fixed and predictable latency data path for TDM systems

Applications

- Carrier-grade Switch Servers
- Access and edge switch/router - Mobile Backhaul, PTN, POTN, OLT
- 1G, 10G, 40G, 100G centralized switch

Lifecycle Status

Active

Specifications

Lifecycle	Active
Distrib. Inventory	No
SerDes / GPHY	16 x 25G + 32 x 10G
Package	1365 FCBGA (37.5×37.5mm)
Bandwidth	300Gb/s
PHY Type	1GE, 10GE, 40GE, 25GE, 100GE
Fabric	16 x 25G (Shared with Front Pane I/O)
External Memory Interfaces	3 x DDR4 / GDDR5

Previously viewed

	BCM88370 Gigabit Ethernet StrataDNX® Qumran-MX		BCM88470 300Gbps 10/100 Gigabit Ethernet StrataDNX® Qumran-AX Ethernet Switch Series
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Mouser Electronics

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