BCM88370
Gigabit Ethernet StrataDNX Qumran-MX

Broadcom's BCM88370 Series, also known as the StrataDNX® Qumran-MX switch series, can help build fixed form factor, feature-rich, deep-buffered switches to enable cloud-scale networking and Carrier network applications. The BCM88370 device processes up to 800 Gbps traffic, supporting up to six 100G full-duplex ports at Layer 2 through Layer 4 with integrated deep-buffer traffic management capabilities, and a fabric interface.

The BCM88370 series is the sixth generation of the Dune deep-buffered feature-rich switching product line.

Features

High performance:

  – 800 Gbps full-duplex switching

• Flexible network interface:

  – 10GbE, 25GbE, 40GbE, 50GbE, 100GbE interfaces

  – Support for a mix of OTN (ODU) and ETH ports on the same device – 400GbE ready

• 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 and 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

  – Unified fabric for OTN and packet