

[Products](#) / [Ethernet Connectivity, Switching, and PHYs](#) / [Ethernet Switches and Switch Fabric Devices](#) / [StrataDNX™](#) / BCM88270

# BCM88270

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120 Gb/s 1/10 Gigabit Ethernet StrataDNX® Qumran-UX Ethernet Switch Series

Currently Viewing:

Overview

## Overview



Broadcom's BCM88270 Series, also known as the StrataDNX® Qumran-UX 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 BCM88270 devices process up to 120 Gb/s traffic, supporting up to 28 full-duplex 1G Ethernet (GE) ports, 8 full-duplex 10GE ports or 2 full-duplex 40GE ports at Layer 2 through Layer 4 with integrated deep-buffer traffic management capabilities, and a fabric interface.

The BCM88270 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 Ethernet port rates.

### Features

- High performance:
  - 30 Gb/s, 60 Gb/s and 120 Gb/s full-duplex switching devices
- Flexible network interface:
  - 1GE, 2.5GE, 10GE and 40GE interfaces
  - Support for a mix of 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

### Applications

- Carrier-grade switch servers
- Access and edge switch/router - mobile backhaul, uWave switch, OLT
- 1G, 10G, 40G centralized switch

### Lifecycle Status

Active