

108 Gbps INTEGRATED MULTILAYER ETHERNET SWITCH

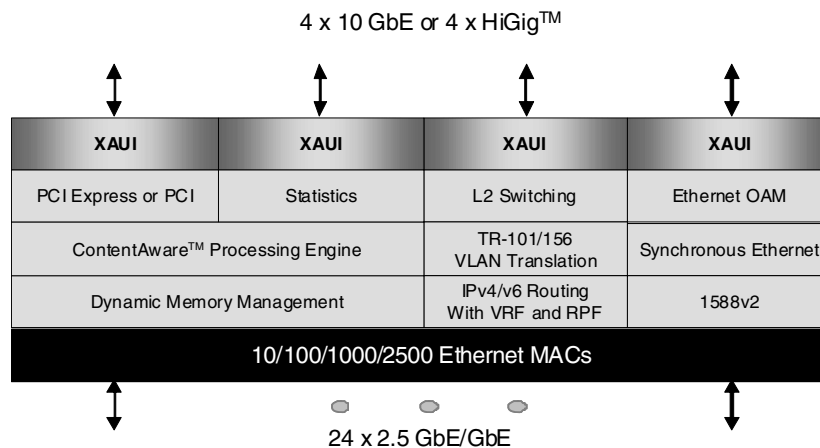
FEATURES

- Seventh Generation of Broadcom® Switch Technology, supporting switching and routing
- Nonblocking architecture, line rate for all packet sizes
- Port configurations tailored for highly integrated access system network termination or customer-facing line cards
- Latest Carrier Ethernet transport protocols: MPLS/VPLS and 802.1ah (PBB)
- TR-101/156 compliant VLAN translation
- Control plane offload of 802.1ag CCM: message initiation and fault monitoring in hardware
- Broadcom time synchronization suite: 1588v2 hardware support, G.8261-compliant Synchronous Ethernet, and the BroadSync™ interface
- Carrier grade with robust memory protection schemes
- PCI Express®, SGMII, and PCI options for host processor interconnect

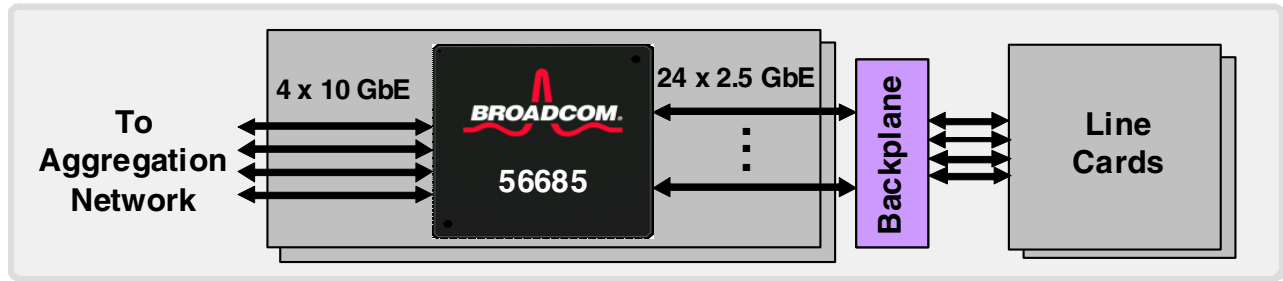
SUMMARY OF BENEFITS

- Highly integrated, purpose-built solution for next-generation DSL and PON access equipment
- Delivers the most popular existing and emerging transport protocols in a flexible implementation for protocol bridging applications
- Supports virtually all QinQ network architectures with comprehensive VLAN manipulations
- Hardware-based Ethernet OA&M support for guaranteed performance; completely alleviates software support of high-bandwidth functions
- Time synchronization suite provides all the tools necessary to deliver systems for new timing-aware applications like mobile backhaul
- Dynamic memory technology delivers optimum usage of packet buffer resources
- Advanced congestion management for lossless packet delivery
- Leverages Broadcom's unified API for software reuse and faster time-to-market

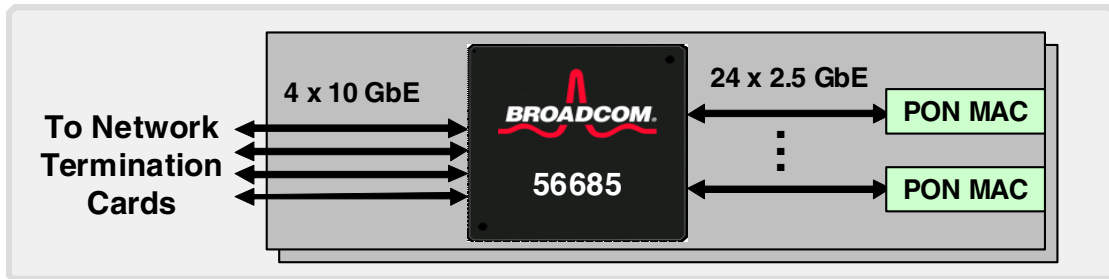
108 Gbps Integrated Multilayer Ethernet Switch



OVERVIEW



Access Chassis Network Termination Card



Access Chassis Customer-Facing Line Card

The BCM56685 is Broadcom's seventh generation of the StrataXGS® product line. It is a highly integrated multilayer switch designed to address new and emerging Service Provider networking applications. The BCM56685 offers the right combination of cost-effective Carrier Ethernet technology, with the ability to deliver outstanding system solutions for broadband access equipment. With its 2.5 Gbps interfaces the BCM56685 is tailored for direct interfaces to GPON ports and dense DSL line cards, minimizing total system power, board area, and solution cost.

Ordering information and configurations appear in the following table.

| <i>Part Number</i> | <i>1000/2500 Ports</i> | <i>XAUI™/HiGig2™ Ports</i> | <i>CPU Interface</i> |
|--------------------|------------------------|----------------------------|----------------------|
| BCM56685 | 24 | 4 | PCIe |
| BCM56689 | 24 | 4 | PCI |

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