

# BCM54285

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## Octal-Port QSGMII Copper/Fiber Gigabit/IEEE1588v2 Ethernet Transceiver

### Overview

Fully integrated octal gigabit transceiver with support for Energy Efficient Ethernet™ (EEE), Synchronous Ethernet and IEEE 1588v2.

The MDI twisted-pair transceiver consists of eight triple-speed 10/100/1000BASE-T Ethernet transceivers or eight QSGMII to Fiber (100BASE-FX, 1000BASE-X or SGMII-Slave) interfaces. When in Copper mode, the PHY performs all of the physical layer functions for 10BASE-T, 100BASE-TX, 1000BASE-T, and on standard Category 5 UTP cable. When in QSGMII to Fiber mode, the PHY performs all of the physical layer functions for 100BASE-FX, 1000BASE-X and SGMII-Slave. For documentation and support, visit [Broadcom Communities](#)



#### Features

- QSGMII interface
- Support for IEEE 802.3-compliant copper line interfaces: 1000BASE-T, 100BASE-TX, 10BASE-T
- Support for these fiber line interfaces: 1000BASE-X, 100BASE-FX, SGMII-Slave
- IEEE 802.3az Compliant (Energy Efficient Ethernet): support for native EEE MACs; support for Not Recommended for New Design non-EEE MACs using AutogrEEEn® mode
- SyncE, IEEE 1588v2 PTP and ITU-T Y.1731 delay measurement support

#### Lifecycle Status

Active

### Specifications

Specification	Value
Lifecycle	Active
Distributor Inventory	Yes

### Related Products

	<p><b><a href="#">BCM82109</a></b> 28nm Octal 25G/28G Unidirectional Repeater</p>		<p><b><a href="#">BCM82181</a></b> 28nm Octal 25G/28G Bidirectional Repeater</p>
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## Previously Viewed