PAS5351, PAS5361 EPON Burst Receiver

Gigabit Ethernet PON Burst Receiver for CO and OLT Transceiver Applications

GENERAL DESCRIPTION

The PAS5351 and the PAS5361 create a Gigabit Ethernet PON Optical Line Terminal (OLT) optical burst receiver dedicated for use in Gigabit Ethernet Passive Optical Network (IEEE 802.3ah EPON) transceivers. The PAS5351 provides the burst-mode Trans-Impedance Amplifier (TIA) function and the PAS5361 provides the burst-mode Limiting Amplifier (LIA) function.

A transceiver based on the PAS5351 and the PAS5361 is compatible with EPON 1000Base-PX20 burst mode applications.

The PAS5351 and the PAS5361 with the PAS5201 EPON MAC SoC and the integrated software package provide a complete EPON OLT solution.
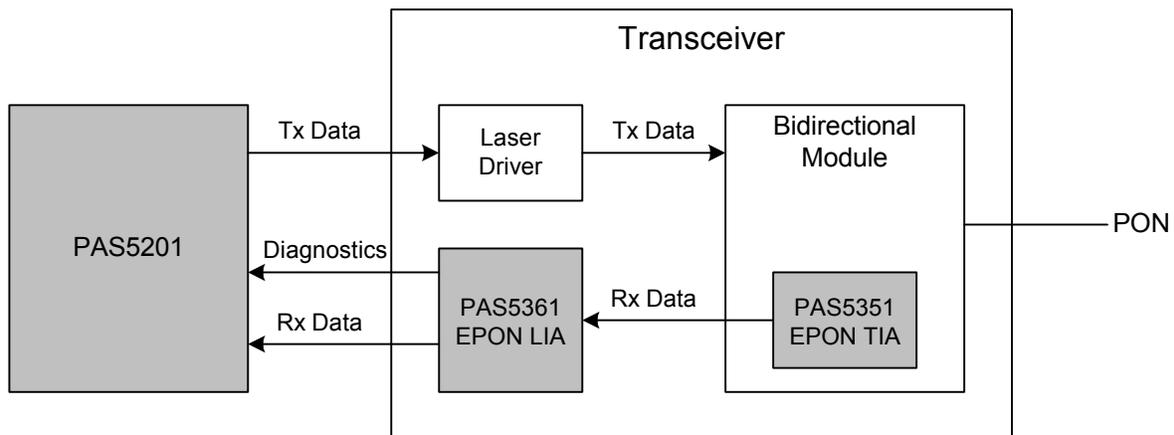
CHIPSET BENEFITS

- EPON OLT-compliant, burst-mode TIA and LIA
- IEEE 802.3ah 1000Base-PX20 compliant
- Supports PIN photodiode and Avalanche photodiode (APD)
- Embedded PON diagnostics function
- Low count of external components
- Signal sensitivity of more than -30 dBm @ 10-12
- Dynamic range of more than 20 dB
- Single 3.3-V power supply

INTERFACES

- LVCML differential output, AC-coupled or DC-coupled
- Direct photodiode data input
- LVCML differential intra-connection, DC-coupled
- Signal diagnostic interface

OLT TRANSCEIVER EXAMPLE

FURTHER RESOURCES

www.pmc-sierra.com/passave/

www.pmc-sierra.com/ftth-pon/

www.DataSheet4U.com