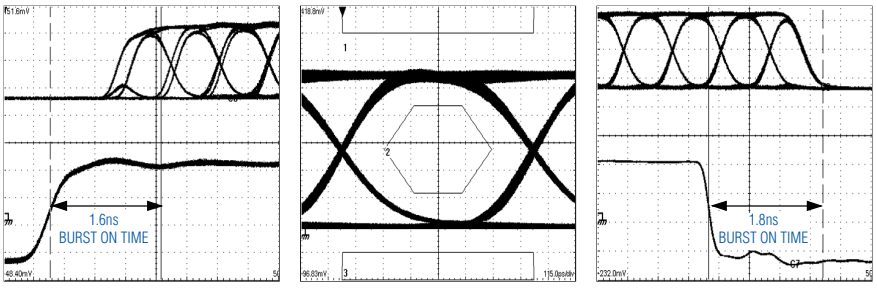
NEW BURST-MODE LASER DRIVER MAKES LOW-COST PON ONT DESIGN EASY

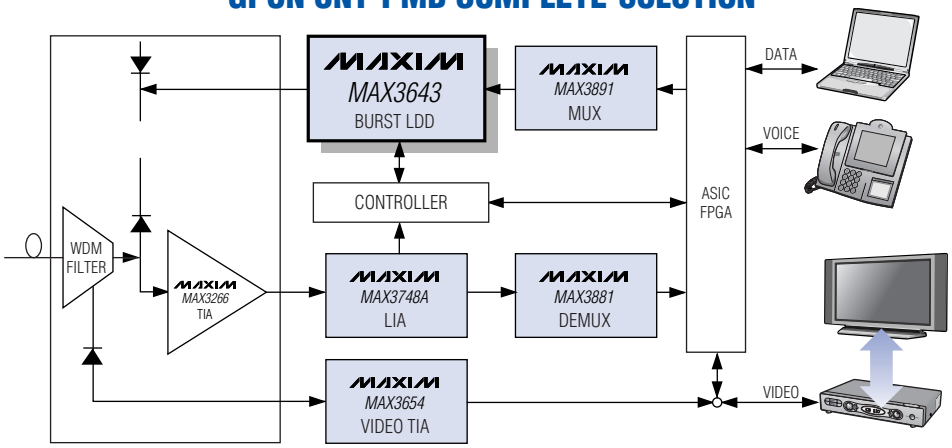
2ns Burst On/Off Time Meets ONT Transmitter Timing Requirements

Maxim's new MAX3643 burst-mode laser driver provides a burst-mode optical transmission solution for all PON ONT designs. Working with a customer-specified controller, the MAX3643 achieves 2ns burst on/off time and maintains the desired transmitting optical power over temperature. The integrated sample-and-hold circuit supports inexpensive controllers, thus reducing total ONT cost. With advanced SiGe technology, the MAX3643 provides 70mA (max) bias current and 85mA (max) modulation current from 155Mbps to 1.25Gbps. Available in a small, 4mm x 4mm TQFN package, the MAX3643 consumes only 300mW at 3.3V single supply and is priced at $1.75†.

1.244Gbps OPTICAL EYE



GPON ONT PMD COMPLETE SOLUTION



†10k-piece price provided is for design guidance and is FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.

MAXIM

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