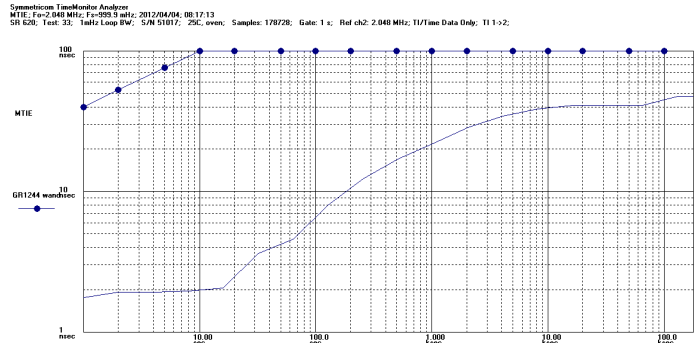




Network Traffic dictates need for more Bandwidth

Custom OCXO family meets IEEE-1588 and ITU Standards

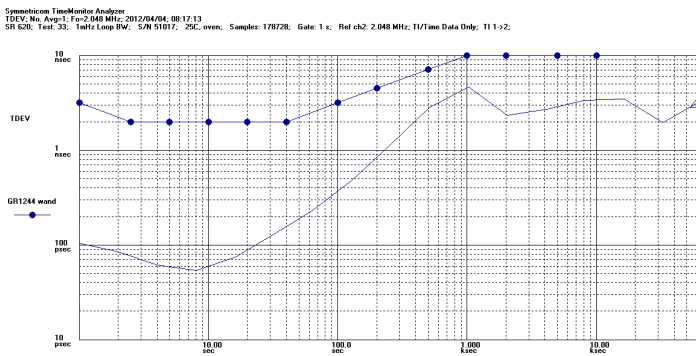


When timing matters

Global mobile data traffic has more than doubled for the fourth year in a row. This growth has led to the demand for a low cost widely deployed network with much higher bandwidth.

To increase the bandwidth and provide for better streaming, the industry is migrating to Carrier Ethernet based networks. This creates a major technical challenge because traditional time-division multiplexing (TDM) networks are synchronous while Ethernet is asynchronous packet based.

Resolving the timing issue, the International Telecommunications Union (ITU) and the IEEE have developed new standards (synchronous Ethernet and IEEE 1588v2) for distributing accurate synchronization across packet based networks.



XO5x84-1588-R OCXO
Stratum 3E Wander Generation: typical performance

IEEE 1588v2

IEEE 1588 inserts time stamp information in the data stream starting from the master down to slave clocks. Network timing also provides precise frequency and phase information, essential in W-CDMA, WiMax and LTE.

XO5x84-1588-R OCXO

MtronPTI's XO5x84-1588-R Series OCXO is specially designed and tested to support IEEE 1588v2 applications. The family meets Stratum 3E of GR-1244-Core, GR-253-Core and ITU-T G.812 Type III Clock requirements.

Local oscillators are major factors in network timing quality. Choosing a proven and reliable device can significantly reduce network noise and avoid timing issues. The XO5x84-1588-R series has excellent Wander Generation performance per Stratum 3E requirements of Telecordia GR-1244-CORE.

Applications

- IEEE-1588v2 ToP (Timing over Packet) Client
- Telecordia GR-253 SONET/SDH/10 GbE Stratum 3E System Synchronizer Timing Cards
- ITU-T G.8263 Packet Slave Clock Timing Cards

Features

- Compliant to Stratum 3E of GR-1244-Core & GR-253-Core
- Compliant to ITU-T G.812 Type III Clock
- Optimized for IEEE-1588v2 Timing over Packet applications 10 MHz, 12.8 MHz, and 20 MHz

Data sheet

<http://www.mtronpti.com/sites/default/files/resources/datasheets/XO5084-1588-R-Series.pdf?v=2013-06-18>

"Whenever we have a problem, sometimes even when it is not your device but instead the circuits surrounding, your experts jump right in. The quality of response and depth of knowledge are outstanding. We wish our other vendors acted this way."

\$2B, data, voice, video communications client

Connect with MtronPTI – *when timing matters*

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