

Apps, Video and backups drive carriers to Ethernet

TCXO meets all Stratum 3 requirements for Sync-E Slave Clocks



HD video and cloud services pushing for fast data

More smart phones and tablets are being sold than TVs and PCs. And we're increasingly consuming video content and syncing to our cloud data / music / movie server. Ethernet works in your home or office but hasn't been available to wireless users.

To take advantage of Ethernet speed and guarantee transfer certainty, wireless carriers have started migrating to Carrier Ethernet. This transition creates a major challenge because traditional TDM (time-division multiplexing) networks are synchronous while Ethernet has an asynchronous packet based nature.

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

Synchronous Ethernet (SyncE)

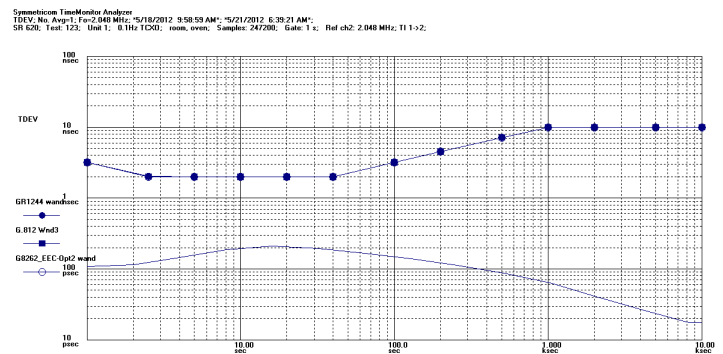
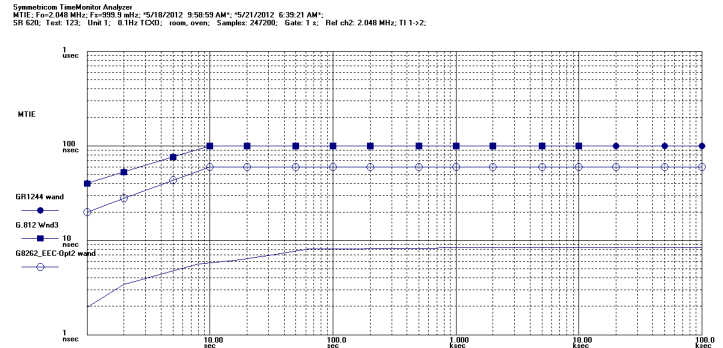
SyncE extends the synchronous optical networking (SONET) timing model to Ethernet networks.

A SyncE network is based on clock accuracy. Some clock suppliers choose not to test and include critical parameters such as wander, holdover and drift on datasheets. To the network equipment OEM this may result in wasted time testing a device not capable of meeting ITU-T G.8262, GR-1244-Core & GR-253-Core requirements, ultimately delaying time to market.

M610x-SYNCE

MtronPTI's M610x-SYNCE Series TCXO is an ideal solution for Synchronous Ethernet slave clock ITU-T G.8262 EEC option 1 & 2 and Stratum 3 GR-1244-Core & GR-253-Core requirements.

The M610x-SYNCE Series has been successfully tested and passed Wander Generation per ITU-T G.8262 EEC option 2, GR-1244 & ITU-T G.812. It meets Stratum 3 stability requirements, low phase noise and has excellent g-sensitivity performance.



M610x-SYNCE TCXO
 Wander Generation: typical performance, loop bandwidth 0.1 Hz

Applications

- SyncE slave clocks ITU-T G.8262 EEC options 1 & 2
- Compliant to Stratum 3 GR-1244-Core & GR-253-Core
- Sonet/SDH Network Timing
- Wireless Communications

Features

- 0.32ppm (pk-pk) holdover stability
- 0.04ppm/day drift stability
- Clipped sine wave or CMOS output
- 10-pad or 4/5 pad options
- Low phase noise and excellent g-sensitivity performance 1.5ppb/g

Product Page

<http://www.mtronpti.com/products/Oscillator/TCXO/M610x-SYNCE-Series-TCXO>

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