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Semtech ACS9522T

ToPSync® Timing-over-packet synchronization technology

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Features

PTP timing features

> PTP Grandmaster selection - automatic or manual PTP master/slave mode selection.

> Powerful network delay analysis - full time-alignment in the slave over hostile networks (Layer 2 or layer 3 networks).

> Dynamic adaptation - to network delay variations. Network loading change tolerant (e.g., ramps and steps).

> Time alignment - better than ±1 μs on a managed 10-switch GbE network under G.826120 test conditions.*

> Frequency alignment - better than ±10 ppb on a managed 10-switch GbE network under G.826120 test conditions.*

TDM timing features

> Programmable TDM timing bandwidth - for wander and jitter tracking/attenuation, 0.1 Hz to 70 Hz in 10 steps.

> Automatic hit-less source switchover - on loss of input.

> Output clock phase adjustment - in 6 ps steps to ±200 ns.

Applications

> Stratum 3, 3E, 4E, 4, SONET Minimum Clock (SMC) or SONET/SDH Equipment Clock (SEC) or Ethernet, IEEE 1588™ (2008) PTP, Synchronous Ethernet, Ethernet Equipment Clock

Packaging

> LBGA package: 324 pin, 19 mm x 19 mm

Order Codes

> ACS9522IFALBGT - Lead (Pb)-free, RoHS and WEEE compliant

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