

Product Brief: Chronos Smart SFP™ TS Transparent SyncE

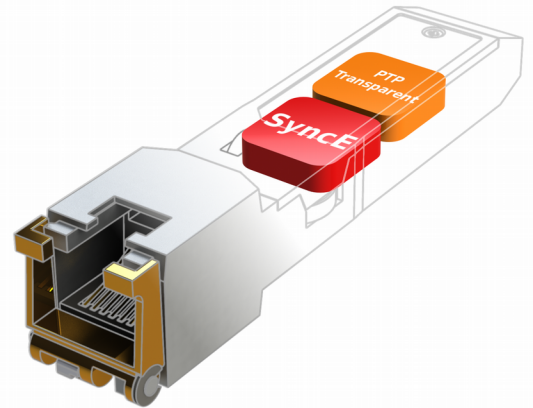
Overview

Chronos Smart SFP™ TS supports Synchronous Ethernet over a copper connection.

Designed in conformance with Small Form Factor Pluggable 20-pin Multi-Source Agreement (MSA), Chronos Smart SFP™ TS enables SyncE via copper cables on equipment that does not have RJ45 ports.

Since Chronos Smart SFP™ TS supports SyncE via electrical interface, network operators can use copper cables on SFP ports while meeting timing and synchronization requirements for demanding applications like LTE, LTE-Advanced and future 5G networks.

Chronos Smart SFP™ TS is a perfect fit for mobile backhaul applications with stringent requirements for frequency and phase. The copper SFP provides the frequency synchronization required for 2G, 3G and LTE-FDD. To ensure accurate Time of Day synchronization for LTE-Advanced the Smart SFP provides transparent forwarding with equal delay in both directions for all packet traffic including the IEEE 1588v2 PTP messages.



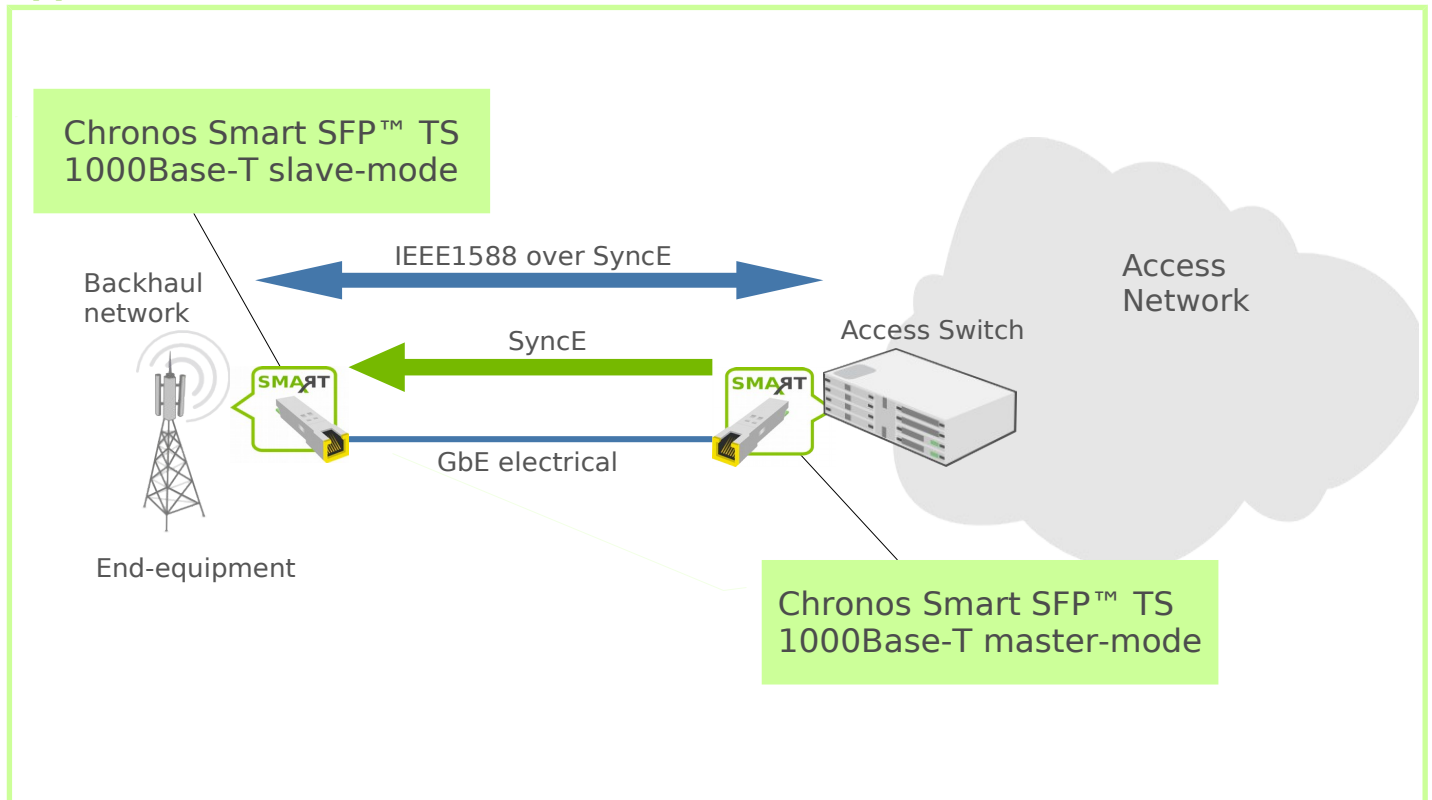
Application Highlights

- Frequency sync for 3G backhaul
- Phase sync for LTE backhaul

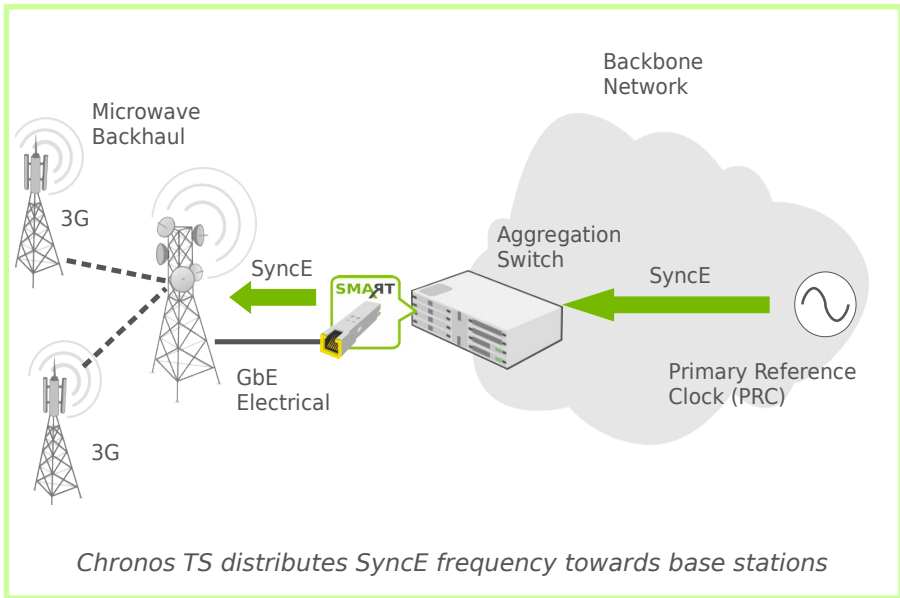
Benefits

- Space saving
- Industrial temperature range
- Low carbon footprint
- Total cost reduction

Applications



Chronos TS Smart SFP in master and slave mode

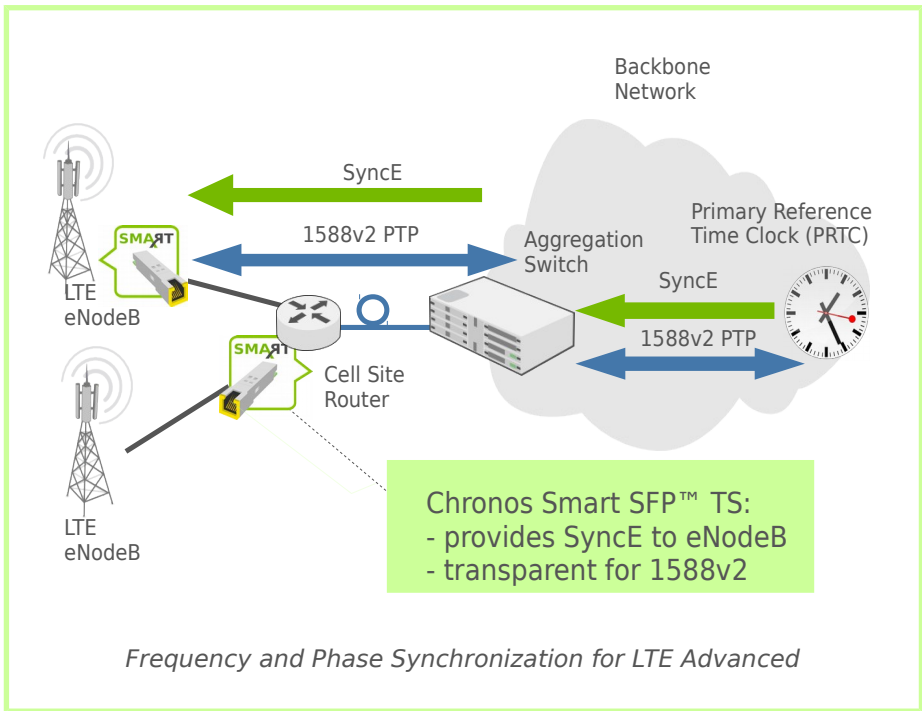


Features

- SyncE Master or Slave
- SFP INF-8074 compliant¹
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- Transparent for IEEE Std 1588-2008
- Equal delay in both directions
- 10kB Jumbo frame support
- Low latency

Interfaces

- Compatible with SFP electrical MSA
- Access to PHY status via ACh page
- Compact RJ45 connector
- Automatic crossover detection (Auto-MDIX)
- Maximum cable length: 100 m
- Available operating temperature ranges:
 - Industrial: -40°C to 85°C



Contact Information

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¹ Exception: power consumption exceeds MSA limit