Introducing MiCLK

The World’s First 1588 Grandmaster on an SFP

MiCLK provides the best synchronization solution for existing LTE/LTE-A networks:
- RAD extends its SAA solution and allows easy upgrade for existing base stations and backhaul equipment to support IEEE 1588
- Fully-featured IEEE 1588 Grandmaster
- Built-in GNSS receiver (GPS/GLONASS/BeiDou)
- Sync-E input for backup
- Assisted Partial Timing Support (APTS) when GNSS is unavailable
- Miniature pluggable device fits in any standard SFP port
- Ideal for 4G small cell deployments
The patent-pending MiCLK brings RAD’s affordable innovation to LTE/LTE-A timing synchronization to allow instant upgrades for any mobile backhaul network.

It eliminates the need to install GPS/GNSS antennas at every cell site while providing highly accurate timing distribution with full network coverage – even in underground and in-building installations.

- Standard IEEE 1588 GM including phase/Time of Day (ToD) to meet stringent LTE Advanced requirements
- Easily plugged into service routers to provide GNSS time reference to the BC function
- Robust GNSS backup – time holdover for 72-hours when GNSS reception is lost, using Sync-E or other frequency references from the network to deliver continues and accurate synchronization to the base station
- Scalable solution supports over 64 slaves
- Allows service providers to avoid spoofing and jamming risks
- Dramatically reduces installation and engineering costs – no additional space or power requirements; does not require dedicated training