

MSC-RF-ADAPT

Multi-GNSS Receiver for use with RF GNSS Antennae



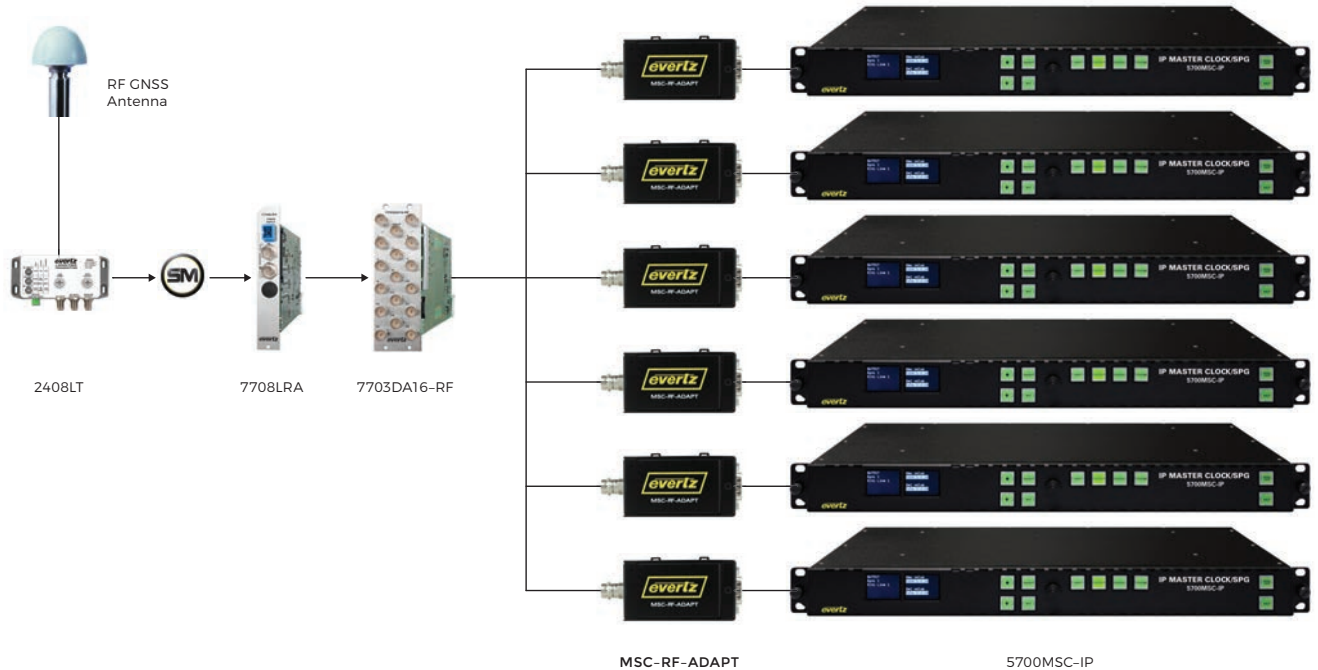
The MSC-RF-ADAPT is a multi-global navigation satellite system receiver capable of receiving GPS, GLONASS and other GNSS constellation signals using a Trimble Bullet 360 or other commercially-available GNSS antenna. The MSC-RF-ADAPT connects to Evertz' master clock products such as 5700MSC-IP and 5601MSC with a RS-422 serial link, and to the GNSS

antenna using 50Ω coaxial cable. For added flexibility, several MSC-RF-ADAPT multi-GNSS receivers may be connected to an RF distribution amplifier (such as the Evertz 7703DA4/8/16/32) to share one antenna. RF connections may be extended with in-line amplifiers (such as the Evertz 7703PA and 7703PA-2) and fiber extenders (such as the Evertz 2408LT and 7707LRA).

Features & Benefits

- High sensitivity for operation in low-signal environments
- Multi-GNSS capability
- Simultaneous GPS/GLONASS tracking
- LED power light to confirm operation
- Plug-and-play interoperability with Evertz' 5700MSC-IP and 5601MSC Master Clocks
- Operates with RF distribution amplifiers, in-line amplifiers and fiber extenders

MSC-RF-ADAPT Configuration Example Diagram



Specifications

DC LNA power supply 5.5V @ 50mA (maximum)
Supported GNSS Constellations:
GPS, GLONASS, Galileo, Beidou
Positioning System: SPS, Timing

1 PPS Timing Accuracy: 15ns (1σ)
Update Rate: 1Hz
Dimensions: 3.75" x 1" x 1.56"
(95.3mm x 25.4mm x 39.6mm)

Typical Min. Acquisition Sensitivity: -148dBm cold start
Typical Minimum Tracking Sensitivity: -160dBm
Time to First Fix: < 46s (50%), < 50s (90%) cold start
Typical Time to Re-acquisition: < 2s (90%)

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