

Ground Station Receiver



Applications

- Telemetry data reception
- Antenna tracking systems
- Frequency diversity telemetry systems
- Flight test instrumentation
- Video reception from satellites or UAV vehicles
- Remote telemetry site operation
- Sites requiring efficient rack space
- Simulation

Options

- Optimal ratio pre-detection combiner/demod
- Trellis demodulator
- ARTM Multi-h CPM
- Spectrum display
- Three channel record down converter
- AUQPSK demodulator
- PM demodulator
- Doppler output (2.8125 MHz)
- Wideband analog FM demodulator with bypass/NTSC/PAL de-emphasis

Features

- Dual channel with total independent control
- Independent channel digital signal processing (DSP) demodulators
- Data rates to 60 Mbps (SOQPSK), 30 Mbps (PCM/FM)
- ARTM TIER II compliant
- Built-in diversity branch selector for optimum data quality performance
- Frequency and spatial diversity capability
- Internal bit syncs for each demodulator
- Channel 1, Channel 2 and combined data outputs
- Multi-band coverage
- Multiple SAW IF filters
- Automatic adaptive IF filters which automatically adapts to the data rate
- Excellent adjacent channel interference immunity
- RCC de-randomizer, selectable
- Synthesized local oscillators locked to internal or external 10 MHz reference
- Fast recovery from power outage
- Rear panel AM and AGC for antenna tracking
- Easy to use front panel control
- External inputs to bit syncs
- Local or remote control via ethernet, IEEE 488, RS-232
- 20 non-volatile user stored setups with alpha-numeric names
- Independent AGC and signal strength outputs
- 3U rack height

Description

TTC's MTGS-3000 digital telemetry receiver system combines two high performance, independently tuned RF tuners with the proven performance of two TTC RF Networks multi-mode demodulators and diversity branch selector all in a 5.25 inch rack mounted chassis. The receiver system provides the user with state-of-the-art technology backed by outstanding customer support.

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MTGS-3000 Datasheet

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