

Multimode (SOQPSK + PCM) Telemetry Receiver/Demodulator



Applications

- Ground Support Equipment
- Pre-flight Checkout
- Telemetry Workstation
- Real-time Quick-Look Station

Features

- PCMCIA-based SOQPSK PCM/FM Receiver/Bit Synchronizer
- Receiver:
 - L-Band or S-Band Input
 - 250kHz Tuning Resolution
 - Better than 12 dB Noise Figure
 - Greater than 50 dB Dynamic Range
 - Provides RSSI Output
- Bit Sync:
 - Bit Rates up to 20 Mbps, SOQPSK/NRZ Codes; 10Mbps PCM/FM NRZ Codes; 5 Mbps PCM/FM Bi-Phase Codes
 - Accepts all IRIG-106 PCM Inputs
 - Provides all IRIG-106 PCM Data Outputs with Coherent Clock
 - Onboard Bit Error Rate Detector and Test Data Simulator
 - Includes Clock Sync Indication
- Low Power 3.3 VDC Operation
- Windows Compatible Setup Software Included
- Works with the DBS-120PC (Bit Sync/Decom), PSU-2020 (Portable Support Unit) and TTCWare/TTCVision

Description

The RCVR-210-S combines the functions of PCM/FM and SOQPSK Telemetry Receiver and PCM Bit Synchronizer into a single low cost PCMCIA type II card. The card can be installed in a portable PC compatible platform for preflight or lab test. The RCVR-210-S receives and demodulates PCM SOQPSK/FM signals at L or S band (customer specified at time of order). The RF input is supplied by an external antenna (supplied) or SMA connector. The demodulated PCM data is supplied directly to the on-card Bit Synchronizer. The Bit Sync provides full featured clock reconstruction, data recovery and code conversion at rates of up to 20 Mbps for NRZ codes and up to 5 Mbps for BiØ codes. TTL and RS-422 compatible PCM data and 0°/180°(selectable) clock outputs are supplied. A Bit Error Rate (BER) measurement capability with an on card Test Data Simulator is also provided.

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RCVR-210-S Datasheet

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