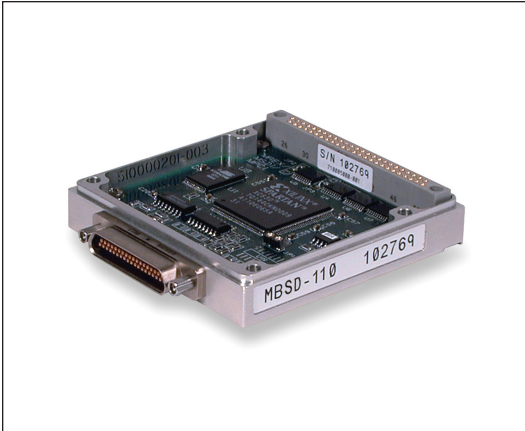# 10 Mbps PCM Bit Synchronizer Module

Applications

- Flight Test Instrumentation
- System Integration
- Convert any IRIG-106-01 Code to NRZ-L and Clock

Features

- General Purpose PCM Bit Synchronizer
- Bit Rates up to 10 Mbps, NRZ Codes
- Single Ended Analog or RS-422 differential Inputs
- Analog Input Amplitudes from 0.1 to 5.0 Volts p-p
- Accepts all IRIG-106 PCM codes as Input
- Provides NRZ-L Output Data with Coherent Clock
- Onboard Bit Error Rate Detector and Test Data Simulator
- Includes Clock Sync Indication
- Multiple modules can be used within a single stack
- Windows Compatible Setup Software Included

Description

The MBSD-110 Bit Synchronizer Module provides full featured clock reconstruction, data recovery and code conversion in a form factor compatible with TTC's MEDAU-2000, MCDAU-2000 and MARM product lines. The module processes PCM inputs at rates of up to 10 Mbps for NRZ codes and up to 5 Mbps for BiØ codes. Data input amplitudes from 0.1 to 5.0 Volts p-p are accepted. Module input impedance is programmable to 50Ω, 75Ω or 10kΩ. TTL and RS-422 compatible PCM data and 0° clock outputs are provided to drive modules requiring serial data and clock inputs. A Bit Error Rate (BER) measurement capability with an in module Test Data Simulator is also provided.

CAIS Compatible

DEKRA Certified — Accredited by ANAB

Management System AS9100C ISO 9001:2008

Revision 05/12/2015

MBSD-110 Datasheet

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