

MBLT-101R

Bluetooth Interface Module

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WRIGHT**

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Key Features

- Bluetooth wireless controller module
 - + For use with a TTC Bluetooth remote PCM module
 - + Requires an external antenna (ordered separately)

Applications

- Remote wireless data collection
- Remote wireless GPIO
- Flight test measurements

Overview

The MBLT-101R Bluetooth interface module forms part of TTC's wireless line of distributed data acquisition units. The MBLT-101R has two functional modes: data mode and terminal mode. In data mode the MBLT-101R collects PCM serial output data stream transmitted transparently via a Bluetooth 2.0 radio link. The PCM serial data stream is collected by the (M)BLT-101T and sent wirelessly without the addition of Bluetooth overhead or packetization (transparent mode). PCM data is provided via the differential PCM data and clock signals on the J2 front panel connector of the MBLT-101R when in an EDAU chassis. In addition to PCM collection in this mode, the MBLT-101R will monitor and adjust its adaptive output clock frequency to maintain a constant buffer level of received PCM serial output data.

In terminal mode the MBLT-101R will act as an intermediary to transmit all system commands sent by TTCWare and receive all (M)MEI-105 system responses from the (M)BLT-101T. This mode will allow the user to load and verify files, changing data rates, bit rates, set up information, etc., for the system stack containing the (M)BLT-101T. By monitoring the MBLT-101R status parameter through the (M)MEI-105 RS-232 COM connection, the user will be informed when the system stack has entered terminal mode; the system is now ready to receive system configuration commands. Upon completion of a load and verification of all files, the (M)BLT-101T will be re-initialized and the Bluetooth link will be severed. The MBLT-101R will automatically re-establish the link.

For the wireless connection, the MBLT-101R will act as the link controller. The controller will initiate Bluetooth mode changes, monitor the link and alert the (M)BLT-101T to start PCM data transfer.

Specifications

General

- Supply current: 350mA @ 5 VDC
- Power consumption: 1.75 Watts max
- Temperature:
 - + Operating Temperature: -40°F to +185°F (-40°C to +85°C) (box ambient temp)
 - + Storage Temperature: -67°F to +212°F (-55°C to +100°C)

Dimensions and Mechanical

- Compatibility: Operates in any MEDAU/MCDAU/-2000 series equipment
- Dimensions: (LxWxH) 2.6x 2.48x 0.8" (66.04 x 62.99 x 20.32mm)
- Weight: 2.5 oz (70 grams)
- Unit connector:
 - + J1 – SMA female
 - + J2 – 25 pin MBM female
- Mating connector:
 - + J1 – SMA male
 - + J2 – 25 pin MBM male

Wireless Connectivity: Bluetooth

- Collects PCM data from a Bluetooth module and provides the reconstructed PCM stream at the front panel

Ordering Information

Contact Curtiss-Wright for ordering information.

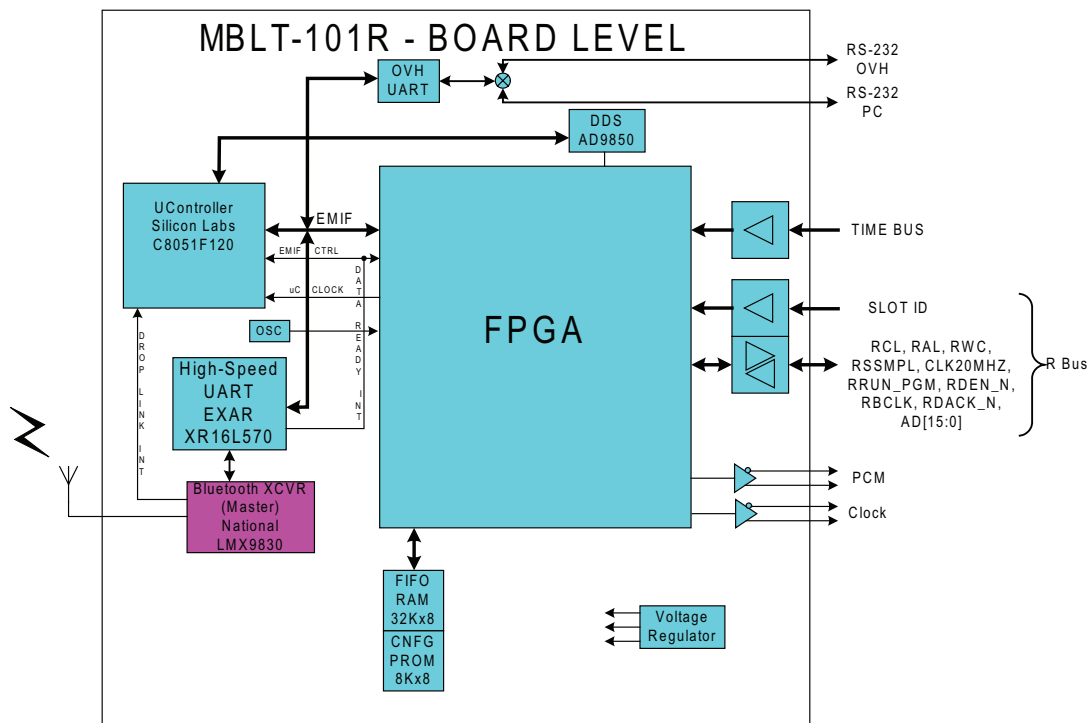


Figure 1: MBLT-101R block diagram