

CMX 1553-1

MIL-STD-1553 Interface Board & Communication Module

- 2 independent dual redundant bus interfaces A ,B
- 3 Mode Configurable:

Bus Controller (BC)/Dual Remote Terminal (RT)/Bus Monitor (BM)

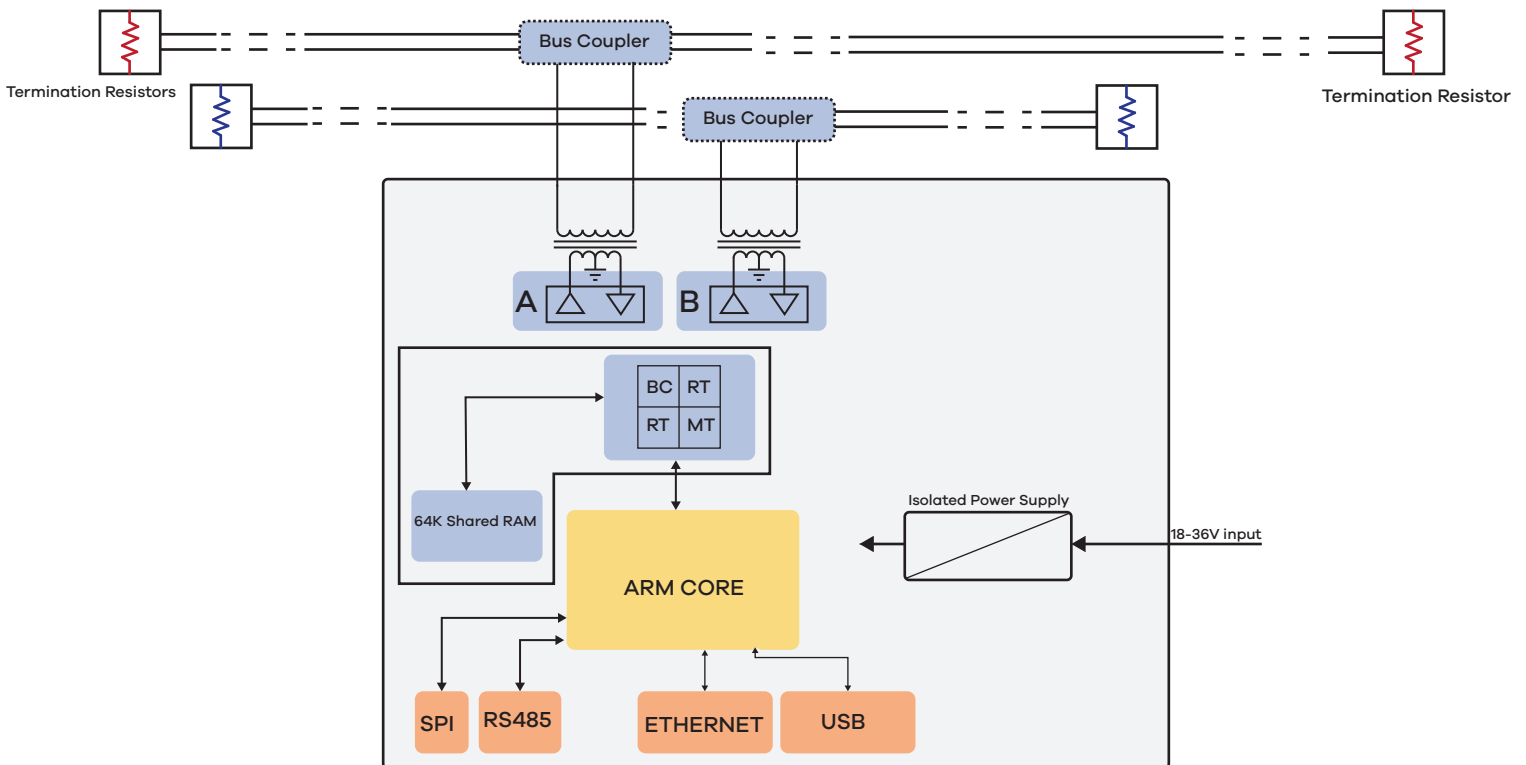
- Transformer-Coupled MIL-STD-1553 Terminal
- SPI /ETHERNET /USB /RS485 interface compatible
- 1500V VDC IO Isolated Power Input

CMX1553-1 Technical Specifications

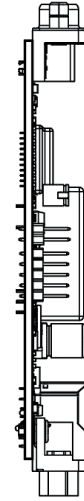
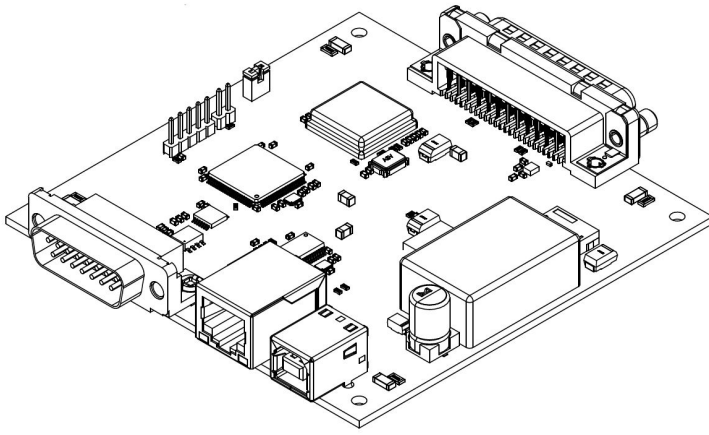
General Specifications	
Configuration:	Bus Controller (BC) Remote Terminal (RT) Monitor Terminal (SMT). BC, RT, SMT, BC and SMT, RT and SMT
Number Channels/Ports:	2/Independent Redundant
Coupling Type:	Transformer Coupled
Communication Interface(s):	RS485 SPI Ethernet USB
Power Specifications	
Input Supply Voltage Range:	18-36Vdc
Power Consumption:	6.6W \leq

General Description

- The CMX 1553 is a MIL-STD 1553 protocol interface board that can be configured in multiple modes as Bus Controller (BC), Dual Remote Terminal (RT), Bus Monitor (BM).
- CMX 1553 is configurable to operate as a Bus Controller (BC). As Bus Controller, the board supports all standard BC-RT, RT-BC, RT-RT transfers, Broadcast and Mode Codes.
 - The BC is a programmable message-sequencing device for control in MIL-STD-1553B applications.
 - The BC can optionally use a 16- or a 32-bit time base, clocked from a choice of six internally generated clocks, or an external time base clock.
 - Special BC op codes manage all 32-bit time base functions. This can be select from software interface.



CMX 1553-1 Block Diagram



-The programmable HI-613x Bus Controller autonomously supports multi-frame message scheduling, message retry schemes, storage of message data, asynchronous message insertion and status /error reporting to the host processor.

- The CMX 1553 can be configured to operate as one or two Remote Terminals.(RT1,RT2).

The Remote Terminal support allows the board to be set at a single RT address, or to emulate the entire bus up to 32 different RTs.

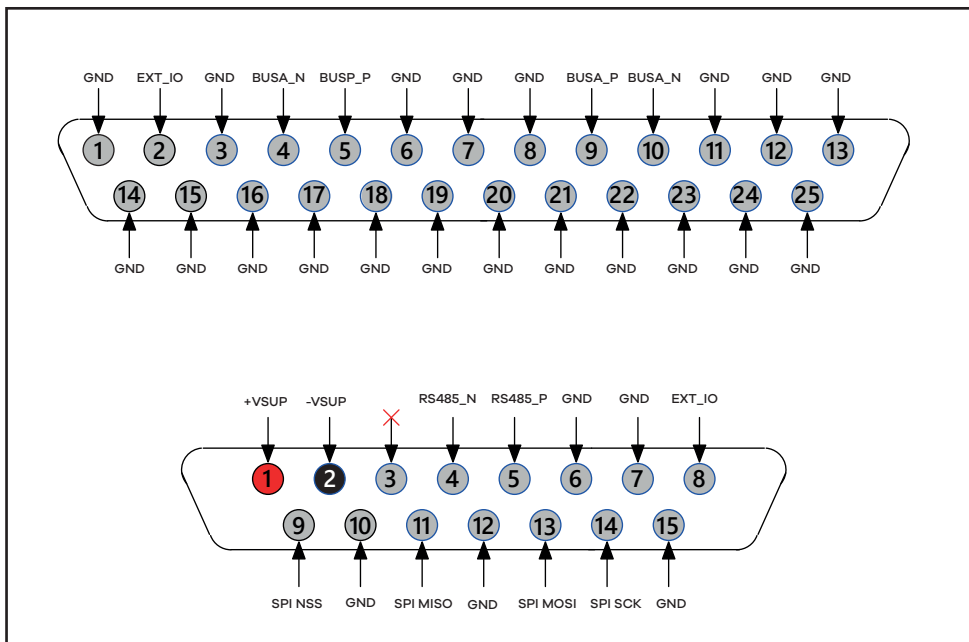
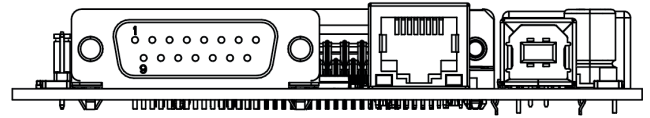
The two Remote Terminals function with distinct characteristics. The two RTs can be reset and reinitialized independently. Remote terminals can receive and send messages.

- The CMX 1553 module can also be used as a simple monitor terminal.

-When operating in SMT mode, the SMT records commands and data separately. SMT can use 16- or 48-bit time stamps with various clocking options.

-Simple Monitor Terminal (SMT) mode provides the ability to monitor all activity, or selective activity based upon RT address. In addition to monitoring data, SMT monitors time tags, error status and RT response time It can be configured and monitored through this interface.

- CMX 1553 has multiple communication interface Ethernet, USB, RS485 and SPI.



DB25 & DB15 Pinout