MIC1007
Multiplex Data Exchange Channel Interface Mezzanine Module

Features

■ Supports 2x redundant or 4x non-redundant communication channels

■ Power consumption: no more than 4W

■ Temperature range: from –50 to +85°C

■ Dimensions: no more than 146.0 mm × 42.0 mm × 18 mm

■ Weight: no more than 0.1 kg

■ Software compatibility: Linux, QNX

■ MTBF: 1,577,900 hours

Overview

The MIC1007 Mezzanine Module in the multiplex data exchange channel interface provides developers with access to the bus serial interface (two redundant independent channels or four independent channels without redundancy) in bus controller, terminal device, and bus monitor modes. The product is designed for installation into the DIC551 or DIC551RC mezzanine carriers.

The main application area of the MIC1007 mezzanine is its use as an interface board when building real-time systems, on-board systems, security and communications, production control and data collection equipment, as well as other mission-critical applications designed to work under harsh operating conditions.

Technical Specifications

Protocol support
• Support of two redundant or four non-redundant communication channels
• Operation in the bus controller, terminal device and bus monitor modes
• Possibility of the transformer and direct connection to the line
• Data transfer rate of 1 Mb/sec
• System of commands in accordance with the GOST R standard 52070-2003

Galvanic isolation of channels
• 750 W

Power supply
• From the carrier-board

Power consumption
• No more than: 4 W

Module's temperature range
• From –50 to +85°C

Resistance to mechanical stress
• Sinusoidal vibration for the frequencies from 10 to 500 Hz with the acceleration of no more than 6g
• Single shocks with duration of 1–5 ms
• Multiple shocks with duration of 5–15 ms, with peak acceleration of no more than 15 g

Dimensions
• No more than 146.0 mm × 42.0 mm × 18 mm

Weight
• No more than 0.1 kg

Moisture
• Up to 80% at the temperature of 25°C, non-condensing
• Up to 95% at the temperature of 25°C for / Coated option
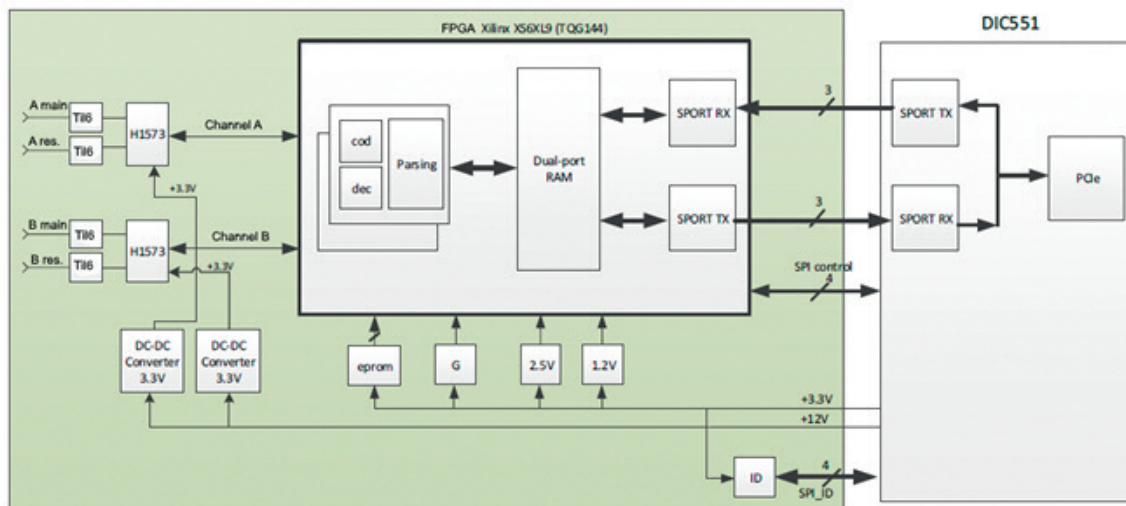
Software Compatibility
• QNX
• Linux

MTBF
• 1,577,900 hours

Fastwel

Block diagram

Ordering Information

MIC1007 Mezzanine Module Configurations

MIC1007 - 01 \ Options

Configurations

MIC1007   Mezzanine Module of the Multiplex Data Exchange Channel Interface, ordering name: MIC1007-01, Mezzanine module for DIC551RC, DIC551, front output, temperature range from –50 to +85°C, output connector 26 pin.

Conformal coating option, \COATED option is added to the order.

Delivery checklist

1. MIC1007 Mezzanine Module in the Multiplex Data Exchange Channel Interface.
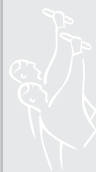2. Packaging.

Ver. 1.10.2019

Product specifications are subject to change without notice

Corporate Offices