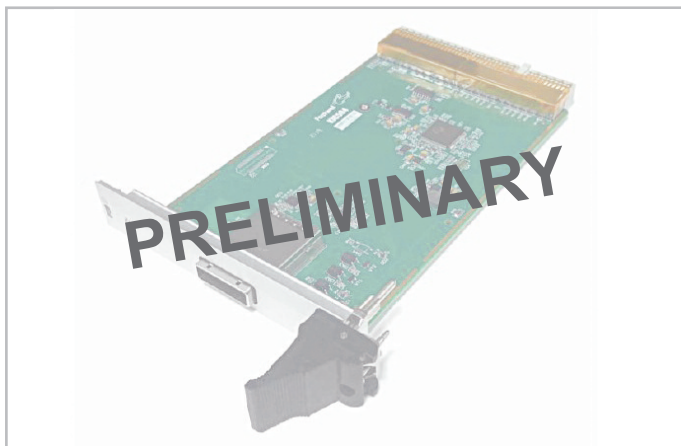


# KIC504

## CompactPCI Interface Module



### Features

- CompactPCI: PCI Bus 32 bit 33/66 MHz
- Power supply voltage: +3.3 V  $\pm$  5%; +5 V  $\pm$  5%
- Temperature range: from -40 to +85°C
- Dimensions: no more than 131.0 mm  $\times$  214.0 mm  $\times$  21 mm
- Moisture: up to 80% at the temperature of 25°C, non-condensing; up to 95% at the temperature of 25°C for the /COATED option
- Weight: no more than 0.6 kg
- MTBF: no less than 500,000 hours

### Overview

The KIC504 Interface Module is a PCI Express – PCI bridge and is installed into the Compact PCI 3U/6U processor slot of the system. Connection to the CompactPCI Serial system is performed using the KIC502 module. There are two connection options: cable and mezzanine connector.

For PCI Express control signals, optical isolation is carried out in accordance with the PCI Express External Cabling standard.

### Compact PCI

- 32-bit PCI Bus 33/66 MHz
- Module's size - 3U/4HP
- Operation mode – System Master, supports up to 8x Bus Master devices
- Support of the PCI Local Bus Rev. 3.0 specification
- Support of 3,3 V and 5 V I/O

### PCI Express External cable connection

- Bus width – PCIe x1 (connector Molex iPass PCIe x4)
- Support of the Gen1 bandwidth (2.5 Gb/sec.)
- Galvanic isolation for control signals
- Maximum cable length – 7m
- Improvement of signal form (redriver)

### Compatibility with the PICMG/VITA standards

- PICMG CPCI-S.0 R2.0 CompactPCI Serial
- PICMG 2.0 R3.0 CompactPCI

### Structure of the I/O channels

- CompactPCI 32-bit 33/66 MHz
- PCI Express External x4 inter-case connection
- PCI Express External x1 cable connection

### Power supply

- Power supply voltage: +3.3 V  $\pm$  5%; +5 V  $\pm$  5%
- Consumption current: 1 A

### Module temperature range

- From -40 to +85°C;

### Resistance to mechanical stress

- Sinusoidal vibrations for frequencies from 10 to 500 Hz with acceleration of no more than 5 g
- Single shocks with duration of 11 ms and a peak acceleration of no more than 100 g
- Multiple shocks with duration of 6 ms and peak acceleration of no more than 50 g

### Weight

- No more than 0.6 kg

### Dimensions

- No more than 131.0 mm  $\times$  214.0 mm  $\times$  21 mm

### Humidity

- Up to 80% at the temperature of 25°C, non-condensing
- Up to 95% at the temperature of 25°C, for the /COATED option

### MTBF

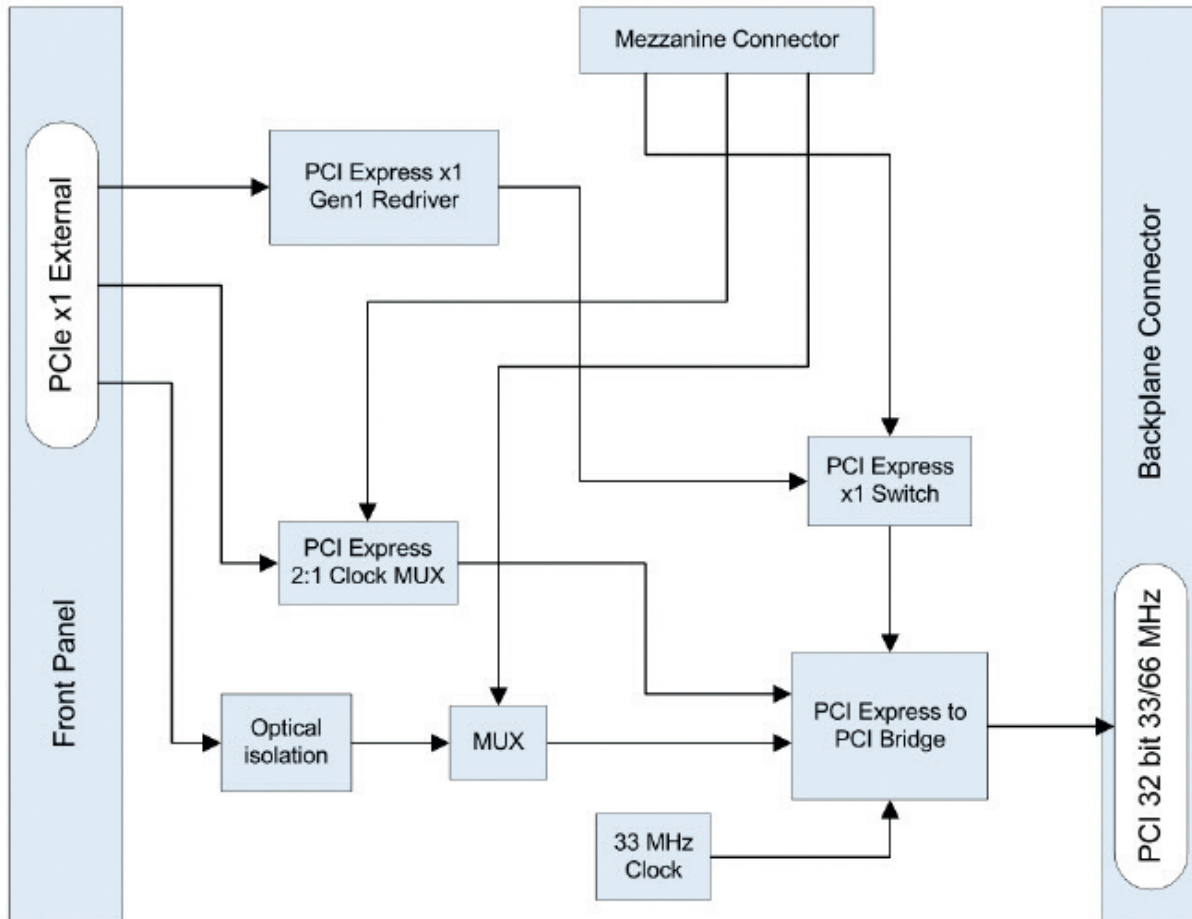
- No less than 500,000 hours



# KIC504

## CompactPCI Interface Module

### Block Diagram



Fastwel



Fastwel



Fastwel

# KIC504

## CompactPCI Interface Module

### Ordering Information

#### KIC504 Configuration

##### KIC504 - 01

###### Versions

KIC504-01 Interface Module, PCI Express to CPCI Bridge, designed for external cable connection, industrial temperature range.

#### Delivery checklist:

1. KIC504 Interface Module.
2. Packaging

### Corporate Offices

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Ver.1.10.2019  
Product specifications are subject to change without notice



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