KIC550
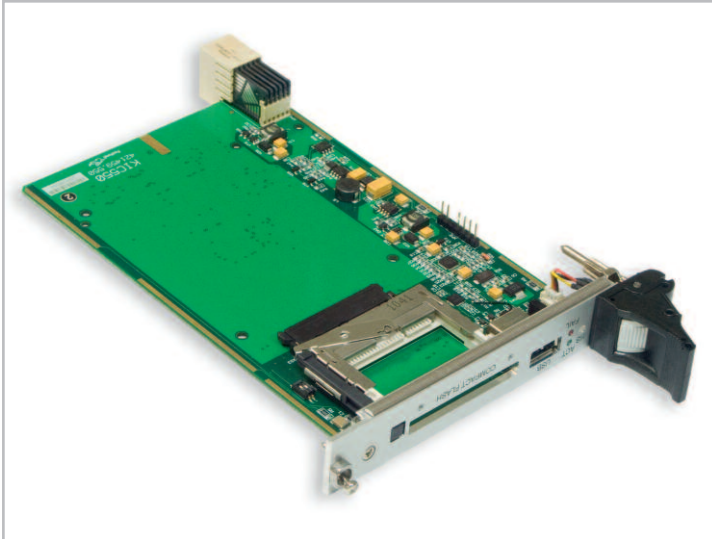## 3U CompactPCI Peripheral Storage Module

Features

- Compliance with PICMG 2.30 and PICMG S.0 standards
- Place for mounting a 2.5" SATA Storage Carrier
- USB 2.0 at the front panel or USB 3.0 via on-board connector
- Operating temperature: –40°C to +85°C
- Intra-module RAID support (RAID 0 and RAID 1)

Overview

KIC550 is a 3U CompactPCI Serial interface expansion module designed to enhance functionality of CompactPCI processor modules conforming to PICMG 2.30 or Compact PCI Serial specifications. Using this module allows to build full-fledged high-performance reliable computing systems.
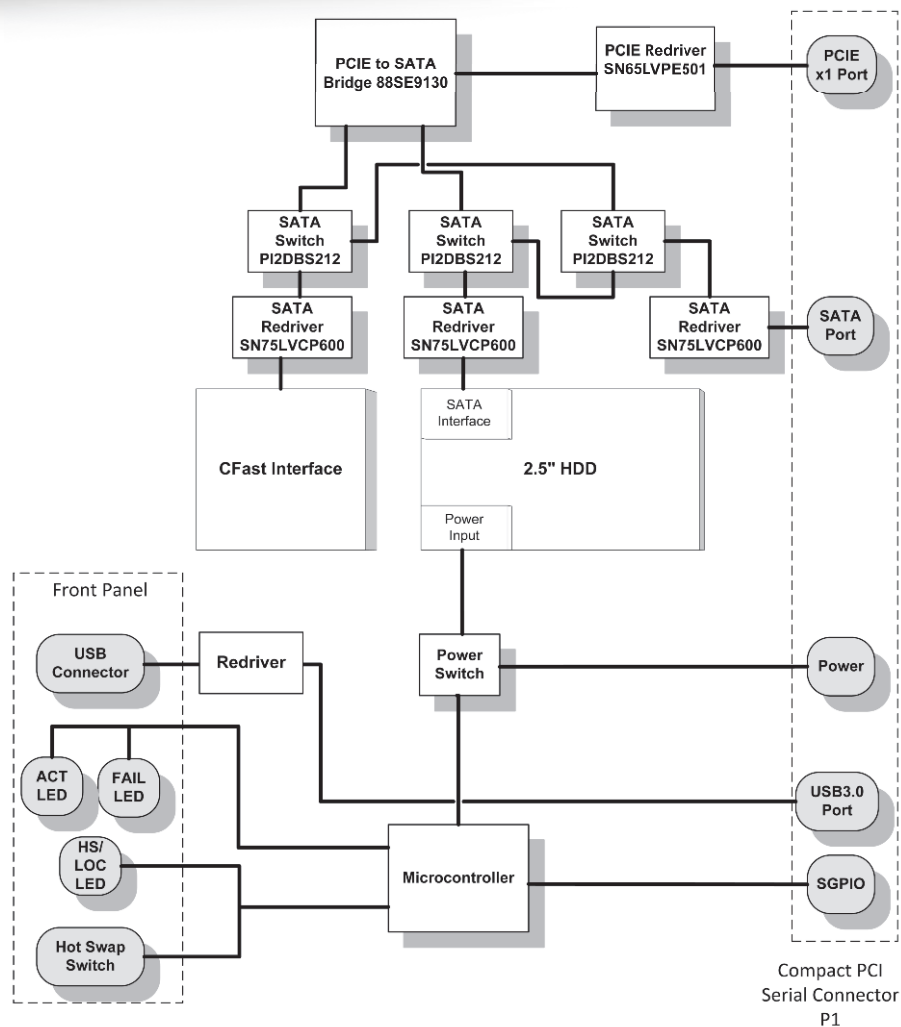
Technical Specifications

- **Adapter for mounting SATA 2.5" Storage Carrier**
  - Supports SATA and SATA II storage carriers, overall size: 100×70×9.5 mm (2.5");
  - Supports operation in RAID; Supports power supply control to the Storage Carrier;
  - Supports SGPIO interface; storage device status indication;
  - Capability of operation in slots with the support of SATA and/or PCI Express interfaces.
- **USB 3.0 port**
  - USB 3.0 specification;
  - Overload protection;
  - Rooted to front panel.
- **CFast interface**
  - Complies with the CFast Revision 1.1 specification;
  - Rooted to the front panel;
  - Capability of operation in slots with the support of SATA and/or PCI Express interfaces.
- **Indication**
  - Storage Carrier status indicators;
  - Hot swap mode indicator *.
- **Additional capabilities**
  - Intra-module RAID support (RAID 0 and RAID 1);
  - HyperDuo storage devices support;

- **No forced cooling required**
- **Supported standards**
  - SFF-8485 specification for serial GPIO (SGPIO) Bus;
  - PICMG 2.30 RC1.0 November 11, 2009;
  - PICMG CPCI-S.0 R1.0 March 2, 2011;
  - CFast Specification Revision 1.1;
  - Universal Serial Bus 3.0 Specification. Rev. 1.0.
- **Operating temperature:**
  Industrial temperature range: –40 to +85°C.
- **Humidity resistance (with protective coating)** at air temperature +(55±2)°C, relative humidity (93±3)% (if the storage device complies with the specified conditions).
- **Power requirements**
  - Power supply voltage: 12 V.
  - Power consumption: 0,27 A (without Storage Carrier and USB devices)
- **Shock/vibration:** 100g/5g (this value is specified for the module without storage devices installed).
- **MTBF:** No less than 1000000 h.
- **Weight:** No more than 135 g.
- **Dimension:** 130,6×213,0×20,3 mm.

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* The "Hot Swap" function of KIC550 module is available with a simultaneous support of the specified function by the processor board.

KIC550
3U CompactPCI Peripheral Storage Module

Board Layout

Compact PCI
Serial Connector
P1

Ordering Information

Available options: \COATED – damp-proof coating

KIC550 Configuration

KIC550 – 01   KIC550 (–40°C to +85°C)

Available Options
\COATED – damp-proof coating

Delivery checklist:
KIC550 Delivery checklist includes:

- KIC550 module – 1 pcs;
- Installation kit (screw: 4 pcs) for Storage Carrier – 1 pcs;
- Package.

Additional accessories
The Storage Carrier is ordered as an extra.

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