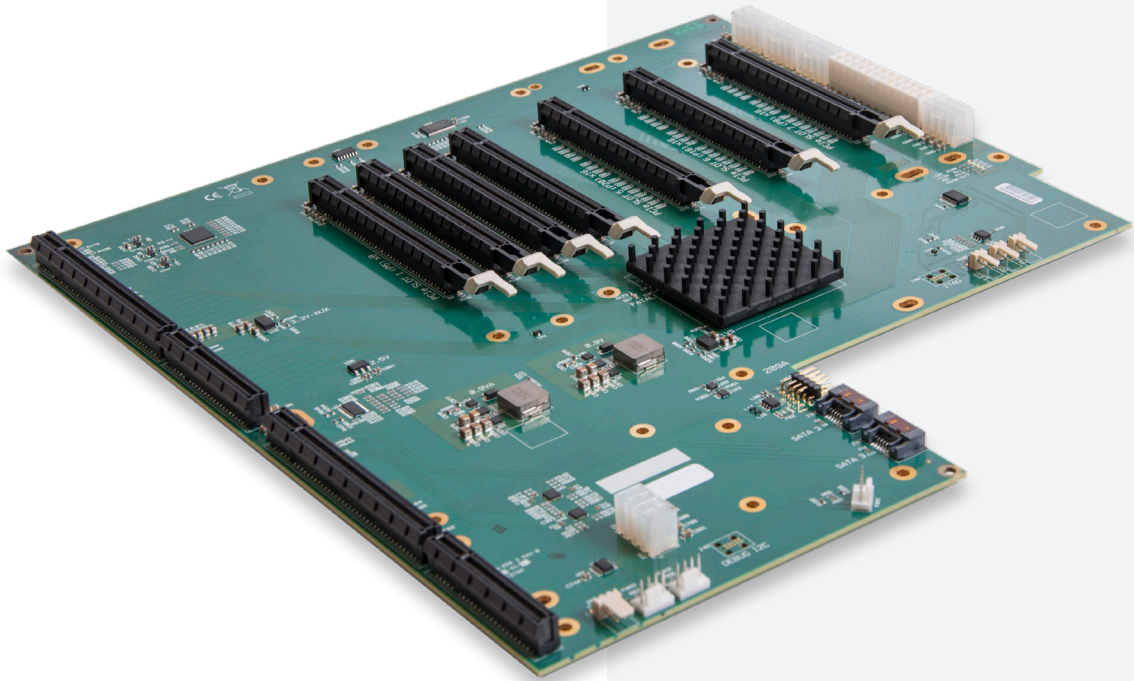


Express7-G3

7 Slot PCI express
expansion backplane



DESCRIPTION

The Datapath Express7-G3 backplane provides four x8 lane PCI Express 3.0 slots typically intended for hosting input cards, and three x16 lane PCI Express 3.0 slots targeted for hosting output cards. The Express7-G3 can be used with a standard PICMG 1.3 single-board computer (SBC) as a stand-alone system or in combination with multiple backplanes to provide a PCI Express expansion system for a standard PC.

FEATURES

- 7 slot, Gen.3 PCI Express backplane
- Four x8 slots and three x16 slots
- 1 x PICMG 1.3 SBC slot for host CPU
- 12V power connectors to support high power graphics cards
- Standard ATX form factor
- Support for multiple backplanes for large systems
- Temperature sensors monitored by Datapath Wall Monitor software
- 96 lane PCI Express 3.0 switch
- Support for 2 x SATA connections
- Provides headers for (1,2 or 3) fans

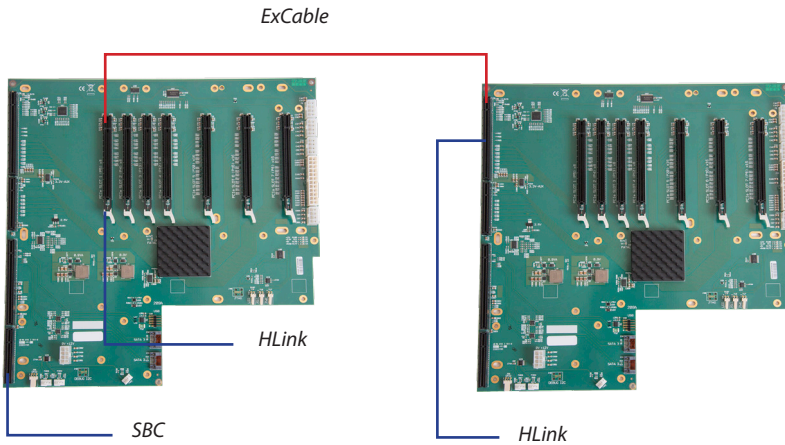
EXPANSION LINK - HLINK-G3, EXCABLE-G3 AND SLINK-G3

The SLink-G3 card can be used instead of a PICMG 1.3 SBC to configure the Express7-G3 as an expansion backplane from a standard PC or from other Datapath backplanes. The cards are available with Gen.3 compatibility, fully supporting the Datapath Express7-G3 backplane.

CONNECTING MULTIPLE EXPRESS7-G3 BACKPLANES

Star Configuration

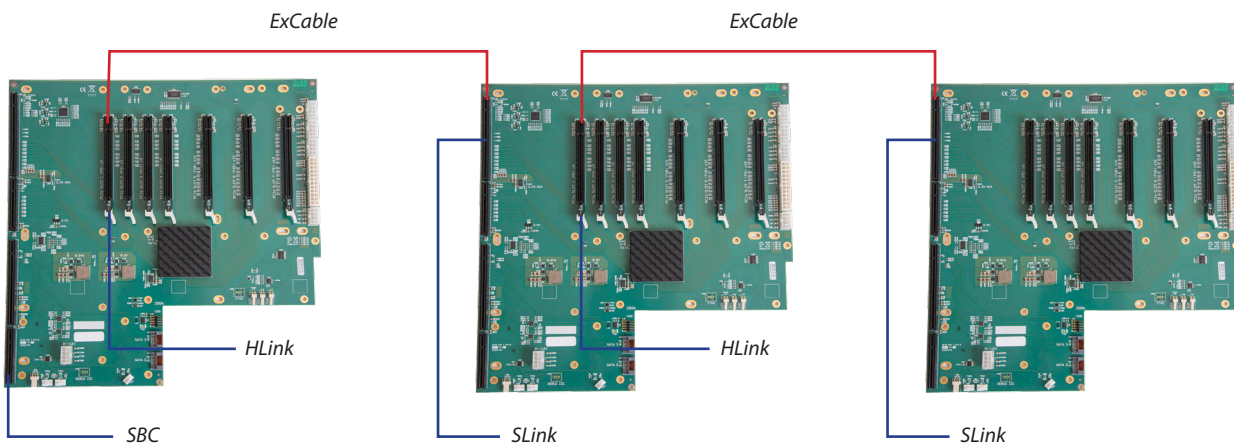
The four x8 PCI Express slots in the master chassis (containing the SBC) can be populated with a HLink-G3 card. Each HLink-G3 is then connected to an expansion chassis using an ExCable-G3 and SLink-G3 card. This configuration provides a high number of available PCI Express slots supporting low latency. The Express7-G3 can be used to connect a mixture of multiple Datapath Express7-G3, Express9 and Express9-G3, and Express11-G3 backplanes.



System providing up to 14 PCI Express slots

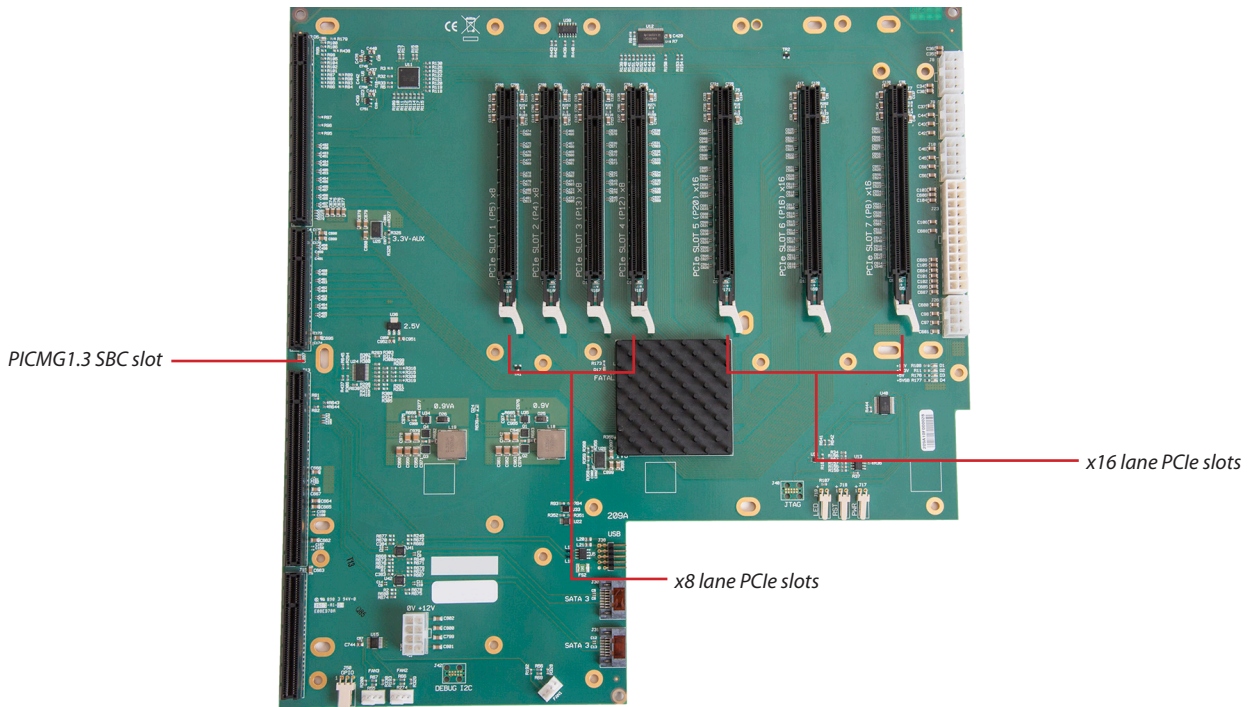
Daisy Chain Configuration

The SLink-G3 card can be used instead of a PICMG 1.3 SBC to configure the Express7-G3 as an expansion backplane from a standard PC or from other Datapath backplanes. The cards are available with Gen.3 compatibility, fully supporting the Datapath Express7-G3 backplane.



System providing up to 19 PCI, Express slots Expansion Link - HLink-G3, ExCable- G3 and SLink-G3

EXPRESS7-G3 LAYOUT



SPECIFICATION

MAX POWER (WITHOUT SBC)

25W

POWER REQUIREMENTS

Max current at +3.3V < 0.5A

Max current at +12V < 0.5A

Max current at +5V < 4A

FORM FACTOR

PICMG1.3 Host SBC interface (x16 PCIe)

3 x PCI Express (x16) expansion slot

4 x PCI Express (x8) expansion slots

ATX PSU

1 x 24 pin power connector

8 x 8 pin AUX power connectors

SATA PORTS

2 x ports via PICMG1.3 interface

USB PORT

2 x ports via PICMG1.3 interface (USB 2.0)

OPERATING TEMPERATURE

0 °C to 35 °C / 32 °F to 95 °F

STORAGE TEMPERATURE

-20 °C to 70 °C / -4 °F to 158 °F

RELATIVE HUMIDITY

5% to 90% non-condensing

MODELS AVAILABLE

Order Code: Express7-G3

7 slot PCI Express Gen.3

Expansion Backplane

We are continuously developing the technology used within our product ranges delivering outstanding innovative solutions, therefore the specification may change from time to time.

Datapath UK and Corporate Headquarters
Bemrose House, Bemrose Park,
Waygoose Drive, Derby,
DE21 6XQ, United Kingdom

☎ +44 (0) 1332 294 441
✉ sales-uk@datapath.co.uk

www.datapath.co.uk

Datapath North America
2490 General Armistead Avenue,
Suite 102, Norristown,
PA 19403,
USA

☎ +1 484 679 1553
✉ sales-us@datapath.co.uk

DATAPATH
EXCELLENCE BY DESIGN