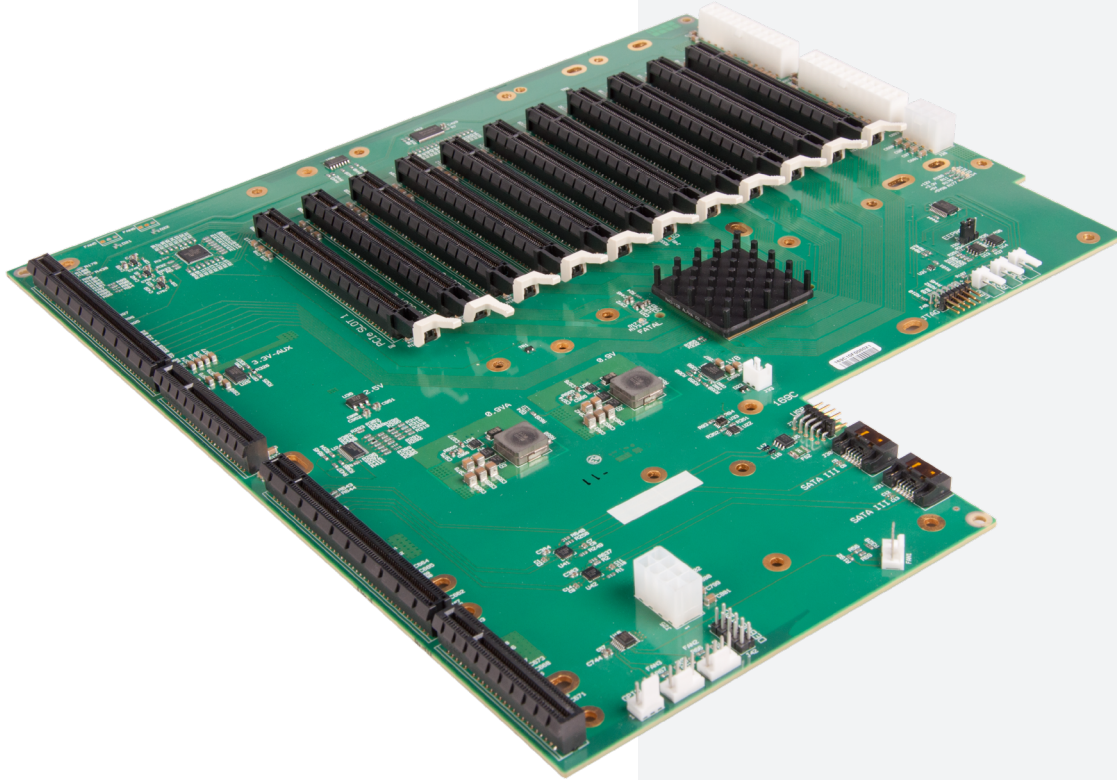# Express11-G3

11 Slot PCI Express Expansion Backplane

DESCRIPTION

The Datapath Express11-G3 backplane provides 11 x8 lane PCI Express slots, all implemented as x16 physical connectors. For high density and high performance display controller systems. The Express11-G3 can be used with a standard PICMG 1.3 SBC as a stand alone system or in combination with multiple backplanes to provide a PCI Express expansion system for a standard PC..

FEATURES

- 11 slot, Gen.3 PCI Express backplane
- 1 x PICMG 1.3 SBC slot
- Standard ATX form factor
- Support for multiple backplanes for large systems
- Supports 8GB/s full duplex links per slot
- Temperature sensors monitored by Datapath Wall Monitor software
- 96 lane PCI Express 3.0 switch
- Support for 2 x SATA connections
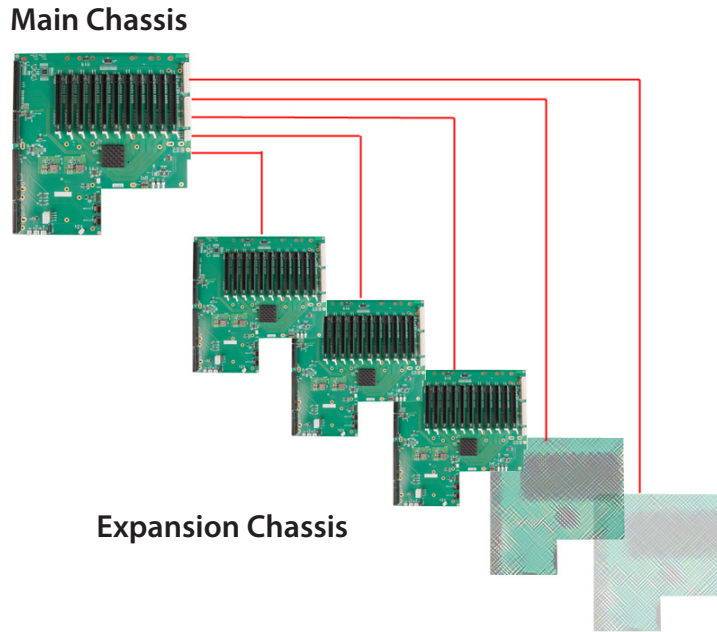- Provides headers for (1,2 or 3) fans

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 Express11-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 Express11-G3 backplane.

Engineering the **world's best** visual solutions

DATAPATH
EXCELLENCE BY DESIGN

Advanced Graphics Display Technology

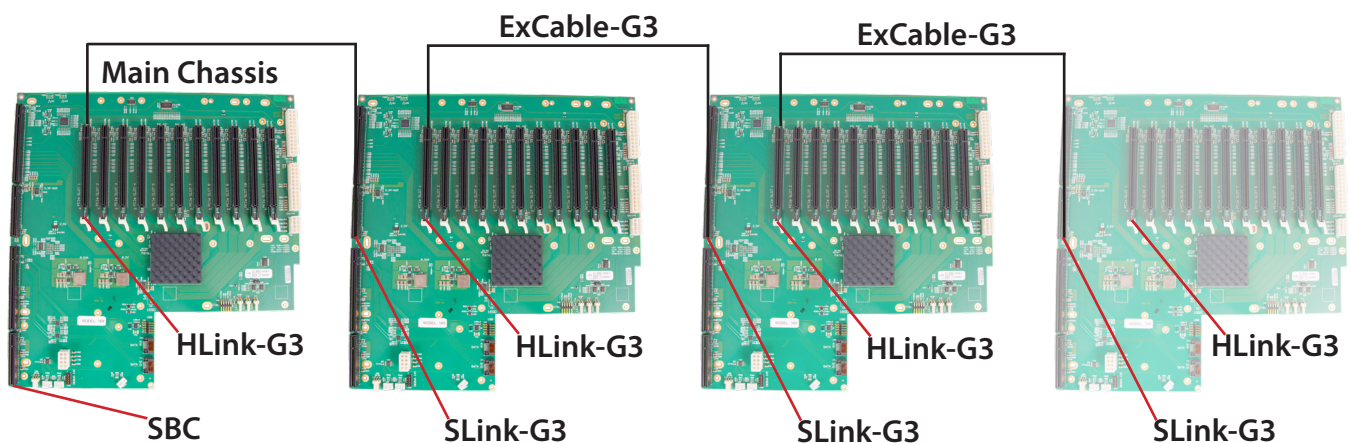## CONNECTING MULTIPLE Express11-G3 BACKPLANES

Star Configuration

All 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 Express11-G3 can also be used to connect a mixture of multiple Datapath Express9-G3 and Express11-G3 backplanes.
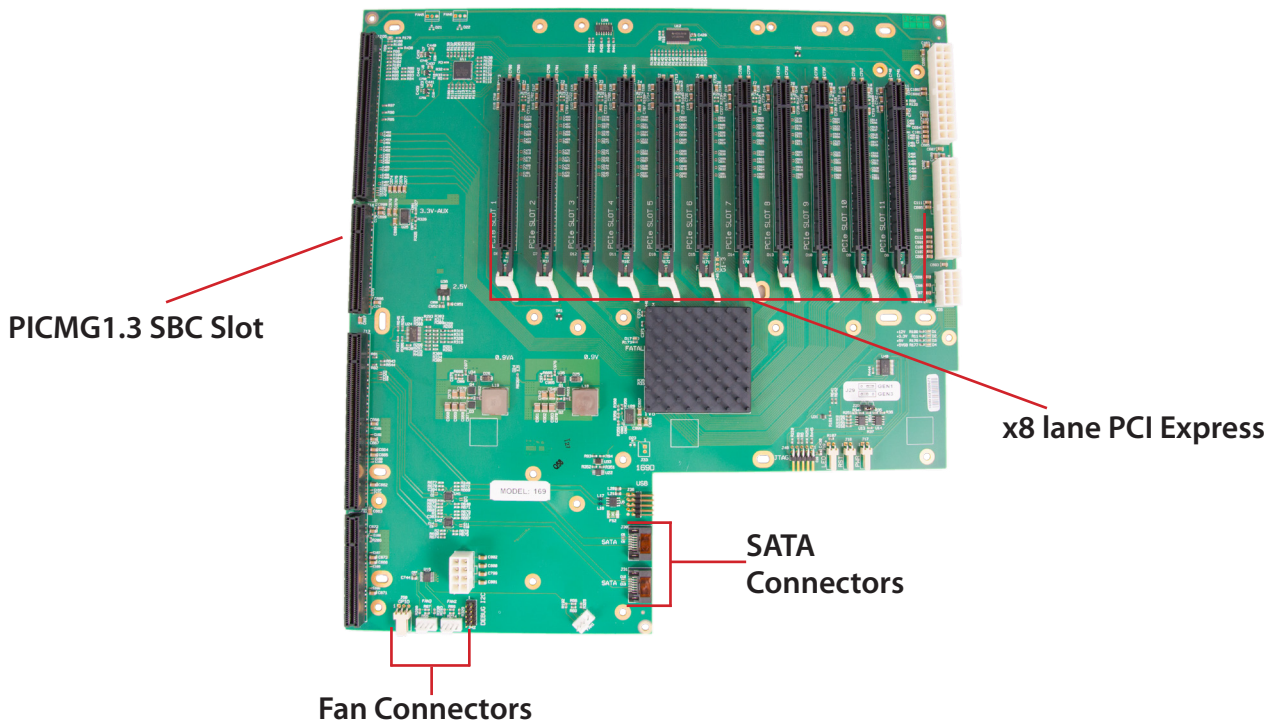
Each HLink and SLink card are factory installed into a system as a pair. When connecting systems please ensure that the cards labelled Link1 are joined using the ExCable, cards labelled Link2 are also joined together etc. In the event that this is not possible, please re-install the Datapath driver to reset the pairings.

Daisy Chain Configuration

Multiple Express11-G3 or Datapath Express9-G3 can also be daisy chained. For larger systems Datapath recommends a Star Topology as illustrated above.

Express11-G3 LAYOUT

PICMG1.3 SBC Slot

x8 lane PCI Express

SATA Connectors

Fan Connectors

All PCI Express slots use a physical x16 connector and therefore will accept any PCI Express board type

SPECIFICATION

Covers both Express9-G3 and Express9 Backplanes

MAX POWER (WITHOUT SBC)
25W

POWER REQUIREMENTS
Max current at +3.3V < 0.5A
Max current at +12V < 0.5A
Max current at +5V –<1.5A

FORM FACTOR
PICMG1.3 Host SBC interface (x8 PCIe)
11 x PCI Express (x8) expansion slot

ATX PSU
4 x 24 pin power connectors
2 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 TEMP
0° to 35°C/32° to 95°F

STORAGE TEMP
-20° to 70°C/-4° to 158°F

RELATIVE HUMIDITY
5% to 90% non-condensing

MODELS AVAILABLE

Order Code: Express11-G3
11 slot PCI Express Gen.3 Expansion backplane PCIe 3.0 Switch

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

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