

Datapath Express9

9 Slot PCI Expansion Backplane

Advanced Graphics Display Technology

Express9

The Datapath Express9 backplane provides nine PCI express slots and can be used with a standard PICMG 1.3 SBC as a stand alone system or with the Datapath S-Link and H-Link cards to provide a PCIe expansion system for a standard PC.

Features

- Nine slot PCIe backplane. 8 x 4 lane slots plus 1 x 8 lane slot
- All slots implemented as x 16 physical connectors so any width PCIe card can be accommodated
- 1 x PICMG 1.3 SBC slot
- ATX compatible mounting holes
- Use as a PCIe expansion backplane for a standard PC using the S-Link and H-Link cards
- Compatible with a standard 4U IPC chassis
- Support for daisy chaining multiple backplanes
- PCIe Switch Fabric providing 100 Gb/s peak system bandwidth

S-Link and H-Link Cards

The S-Link can be used instead of a PICMG 1.3 SBC to configure the Express9 as an expansion backplane from a standard PC or from other Express9 backplanes.



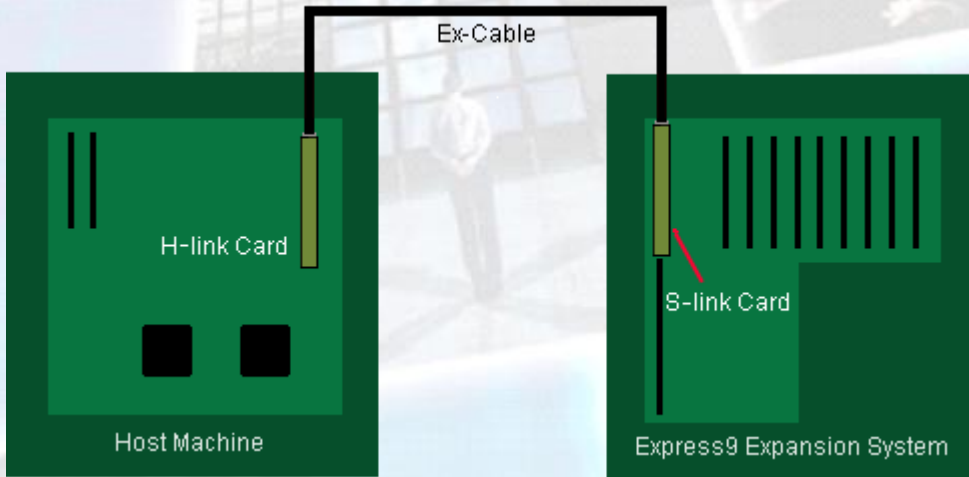
Express9 backplane with SBC1

Datapath Express9

9 Slot PCI Expansion Backplane

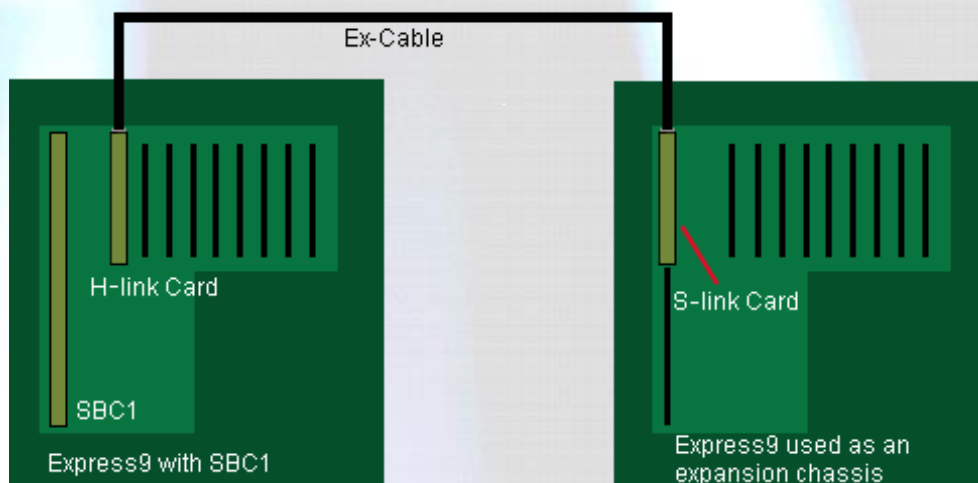
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Connecting the Express9 Backplane



Note: The host PC requires a PCIe x 8 or x 16 lane (physical) slot for installing the H-Link card.

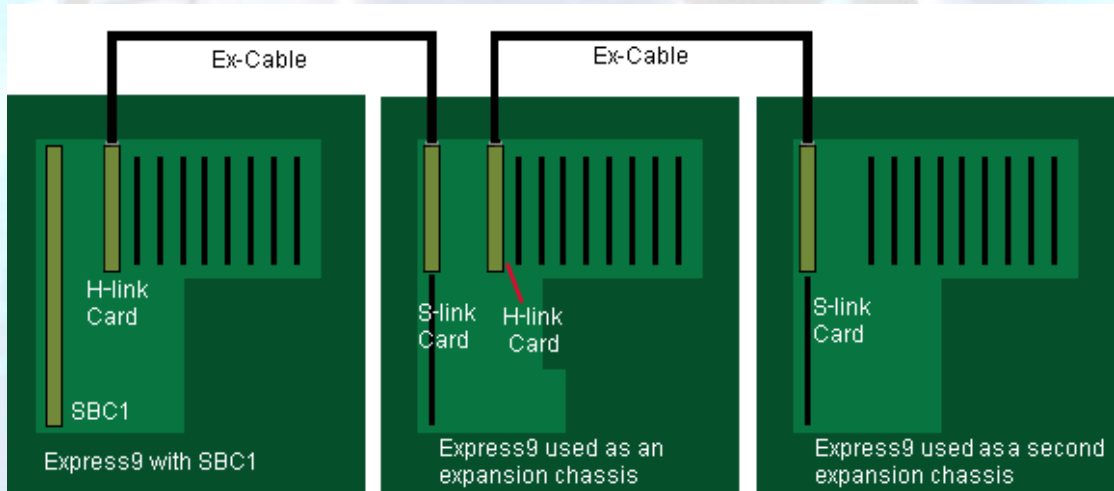
Connecting Multiple Express9 Backplanes



System provides up to 17 PCIe slots

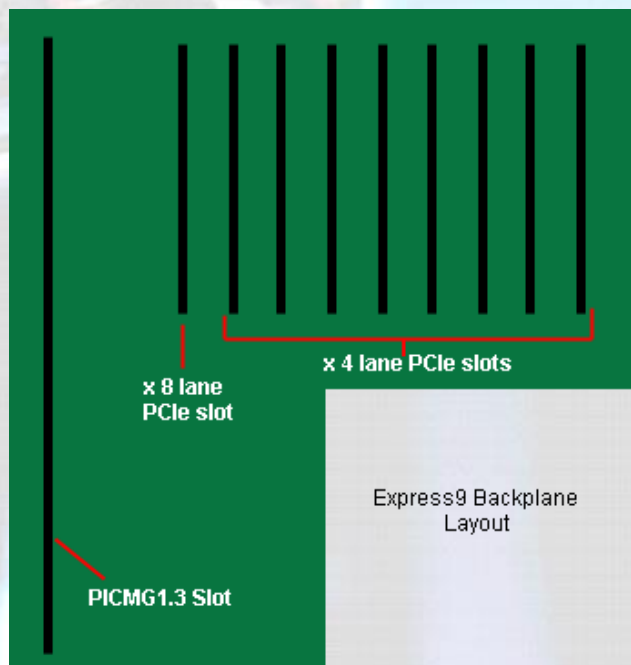
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System provides up to 25 PCIe slots

Express9 Layout



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

SBC1 Specification

Features

- Compatible with the Express9 backplane
- PICMG1.3 Core2 Duo/Quad
- Dual Gigabit Ethernet supported
- Dimensions 338mm x 122mm

Chipset

- Intel Q35 and ICH9DO

System Memory

- 4GB RAM

I/O Interface

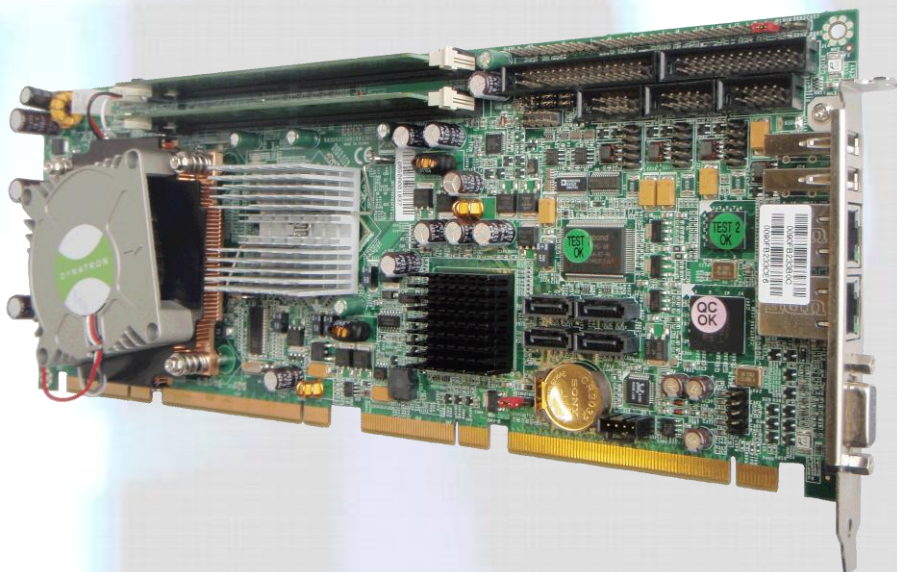
- 1 x TPM connector
- 6 x SATA ports with 300MB/s transfer rate supports RAID 0, 1, 5 and 10
- 2 x RS232 serial ports
- 4 x USB 2.0 ports
- 16-bit Digital I/O interface
- 1 x IrDA port

Operating Temperature

- 0 to 60 deg C

Relative Humidity

- 10% to 95% non-condensing



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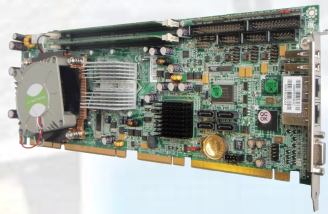
The Express9 Product List

Express9 backplane



9 slot PCI express backplane providing 8 x 4 lane slots and 1 x 8 lane slot.

SBC1



PICMG1.3 Core2 Duo/Quad SBC with VGA, dual Gigabit LAN, SATA RAID USB2.0 and 16-bit GPIO.

S-Link Card



The S-Link card is a PICMG 1.3 PCIe expansion receiver card installed into the SBC slot located on the Express9 backplane. It is connected to the H-Link card using the Ex-Cable.

H-Link Card



The H-Link card is a Host Link adapter which is installed on the host machine's motherboard or an Express9. It is connected to the S-Link card using the Ex-Cable.

Ex-Cable



The Ex-Cable is a 0.75M expansion cable used to connect the Express9 backplane to the host machine via the S-Link and H-Link cards.

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Product Specifications

Express9

- Max Power (without SBC1) 16W
- 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
 - 1 x PCIe (x8) expansion slot
 - 8 x PCIe (x4) expansion slots
 - 4 x 24 pin power connectors
 - 2 x ports via PICMG1.3 interface
 - 2 x ports via PICMG1.3 interface
- ATX PSU
- SATA Ports
- USB Ports

S-Link

- Max Power 5W
- Power requirements
 - Max current at +3.3V - 0.1A
 - Max current at +12V - 0.3A
 - Max current at +5V - 0.1A
- Form Factor
 - PICMG1.3
 - PCIe x 8 expansion interface

H-Link

- Max Power 5W
- Power requirements
 - Max current at +3.3V - 0.1A
 - Max current at +12V - 0.3A
- Form Factor
 - PCIe x 8
- Warranty
 - 3 years on Express9, S-Link, H-Link and Ex-Cable

Datapath Express9

9 Slot PCI Expansion Backplane

Environment: Express9/S-Link/H-Link

- Operating Temperature 0 to 35 deg C
- Storage Temperature: -20 to 70 deg C
- Relative Humidity: 5% to 90% non-condensing

For details on how to purchase the Express9 products contact our sales department
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