PCle/104 Quad Mini PCIe/mSATA

Connect Tech’s Quad Mini PCIe/mSATA board supports up to four mini PCIe modules simultaneously for applications in the PCIe/104 small form factor embedded market place.

This product is ideal for a wide array of applications. The ADG078 and ADG080 support any “Half” or “Full” Mini PCIe/mSATA product on the market, while the ADG087 supports any “Full” Mini PCIe/mSATA. This allows for maximum flexibility while keeping the PCIe/104 stack as small as possible.

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<td>Form Factor</td>
<td>PCIe/104</td>
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| Mini PCIe Compatibility | • ADG078 and ADG080 support four “full” or “half” sized Mini PCIe modules  
                        • ADG087 supports four “full” sized Mini PCIe modules |
| PCIe           | Support for PCIe to all four Mini PCIe sockets:  
                        • ADG078 and ADG080 consume all four PCIe x1 ports  
                        • ADG087 consumes only one PCIe x1 port |
| SATA           | Support for mSATA at two Mini PCIe sockets |
| USB            | USB support at all four Mini PCIe sockets |
| SMBus          | SMBus support for all four Mini PCIe sockets |
| Power Source   | PCIe/104 Bus |
| Power          | Onboard power supply for Mini PCIe sockets |
| Dimensions     | Fully PCIe-104 compliant: 3.775" x 3.550" |
| Environmental  | -40°C to +85°C |
| Warranty and Support | 2 Years |

FEATURES

✓ Supports up to four Mini PCIe modules simultaneously
✓ Supports any Mini PCIe/mSATA product
✓ Maximum flexibility keeping the PCIe/104 stack small

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Block Diagrams

ADG078/ADG080

MiniPCIe/ mSATA
Module 1

x1 PCIe/SATA
SM Bus

x1 USB

MiniPCIe/ mSATA
Module 0

x1 PCIe/SATA
SM Bus

x1 USB

MiniPCIe Module 2

x1 PCIe
SM Bus

x1 USB

MiniPCIe Module 3

x1 PCIe
SM Bus

x1 USB

USB Hub

x1 USB

mux

x1 PCIe-3
SATA-1

x1 PCIe-2
SATA-0

x1 PCIe-1

x1 PCIe-0

USB-0

USB-1

Top Stacking ONLY
OR Bottom Stacking ONLY

Mini USB Connector

Note: None of the PCIe-Lanes, USB Links or SATA Links are "shifted" from the Top to Bottom PCI/104-Express connector, since this board is intended for Top-Most stack position.

ADG087

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