A6pci8080
6U CompactPCI - Intel Core and Celeron

- 6U CompactPCI® CPU Board
- Intel® Core™ and Celeron®
- Up to 32GB DDR4 Memory
- Four Gigabit Ethernet
- M.2 Slot, Four USB 3.0
- Low Power and Fanless
- Customizable

Features

6U CompactPCI - The A6pci8080 is a dual-slot 6U CompactPCI board, powered by Intel Core and Celeron processors and fully PICMG 2.0 compliant

Powerful - Comes with 6th Gen Intel Core CPUs: Core i7, i5, i3 and Celeron dual core configurations, up to 2.6GHz (3.4GHz burst)

Performant - Supports up to 32GB of high speed DDR4 dual-channel RAM on two SO-DIMM sockets

Rich - Delivers multiple high-speed interfaces, including four Gigabit Ethernet, four USB 3.0, two serial ports and much more

Low Power and Fanless - Enables fanless designs with a CPU TDP of only 15W

Customizable - Personalization and full customization options are available, ranging from custom SW image pre-installation to deep HW/SW configurations

Description

The A6pci8080 is a dual-slot 6U CompactPCI CPU board designed to meet the requirements of industrial and rugged fanless applications. Fully compliant with the PICMG 2.0 CompactPCI standard, the A6pci8080 is based on the 6th Generation Intel Core and Celeron processor family, supporting up to 32GB DDR4 RAM on dual SO-DIMM socket.

Other features include high speed interfaces on the front panel: four Gigabit Ethernet, four USB 3.0 and two serial ports on DB9 connectors, and one DVI-I that supports both analog and digital video signals. In addition to these interfaces, the A6pci8080 supports two USB 2.0 and one SATA connector on internal headers, and a M.2 slot for additional on-board storage.

Supported operating systems include Windows 10 IoT Enterprise.

Professional Services are available for the A6pci8080, starting from BIOS personalization and including full system development and production. Deep board customization, such as feature changes, are also available.
## Specifications

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<th><strong>PROCESSOR</strong></th>
<th>Description</th>
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<td>CPU</td>
<td>Celeron 3955U - 2.0GHz, 2 Cores</td>
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<td>Chipset</td>
<td>Integrated Intel Skylake SoC</td>
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<td><strong>BIOS</strong></td>
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<td><strong>Size</strong></td>
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Block Diagram

1x DVI-I (Front Panel)

VGA

DP to VGA

1x DDI

DVI

DP to DVI

1x DDI

F81846AD-I
Super I/O

LPC

2x COM (Front Panel)

2x F81439A Transceiver

XIO2001ZAJ
Bridge

PCI-e x1

PCI

LCMX02-640C-4T6100C
(CPLD-ind. 1RO)

SMBUS

PCI Interface
(cPCI/ J1, J2)

2 channel

2x DDR4 SO-DIMM
(No-ECC, socket)

4x USB3.0
(Front Panel)

2x USB2.0
(Onboard)

Skylake-U
Core-i3/Celeron

1x SATA connector
(2.5" HDD/SSD)

1x M.2 slot
(M.2 card)

1x S2A2.0

1x S2A2.0

1x S2A2.0

1x S2A2.0

4x PCI-e x1

4x PCIe

i211AT

4x GbE

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