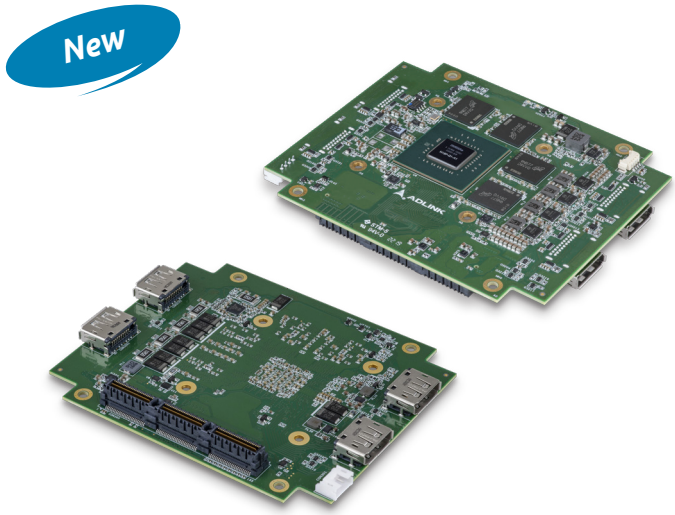
CM5-P1000

PCIe/104 Type 1 Embedded Graphics Module with NVIDIA® Quadro® P1000

Features

- PCIe/104 Type 1 (116 x 96 mm)
- 640 CUDA cores
- 1.8 TFLOPS peak FP32 performance
- 4GB GDDR5 memory
- 96GB/s maximum memory bandwidth
- 4x UHD DisplayPort outputs
- Wide operating temperature range: -40°C to +85°C



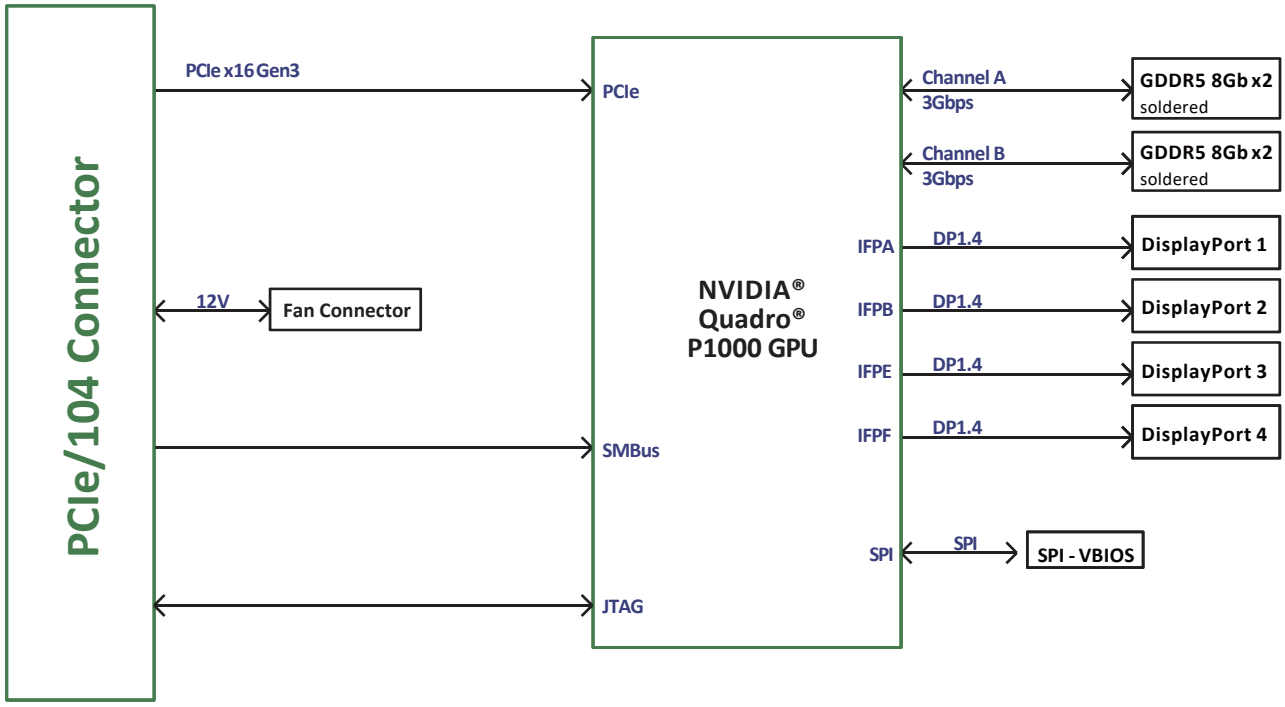
PC104

Specifications

- **Graphics Core**
  - **Architecture**
    NVIDIA® Pascal™ GP107, 640 CUDA cores
  - **GPU**
    Quadro® P1000
  - **Display Outputs**
    4x DisplayPort 1.4 digital video outputs
  - **Signal Interface**
    PCI Express x16 Gen3 bus
- **GPGPU Computing**
  - **GFLOPS**
    1.8 TFLOPS peak FP32 performance
  - **CUDA Support**
    CUDA Toolkit 8.0, CUDA Compute version 6.1 OpenCL™ 1.2, DirectX® 12, OpenGL 4.5, Vulcan 1.0
- **Memory**
  - **GDDR5 Memory**
    4GB
  - **Memory Width**
    128-bit
  - **Bandwidth**
    96 GB/s
- **Physical**
  - **Dimensions**
    116 (W) x 96 (D) mm
  - **Interface**
    PCIe/104 type 1
- **Environmental**
  - **Operating Temp.**
    -40˚C to 85˚C
  - **Storage Temp.**
    -40˚C to 85˚C
  - **Operating Humidity**
    95% @40˚C (non-condensing)
- **Operating Systems**
  - **Supported OS**
    Windows 10
    Linux 64-bit

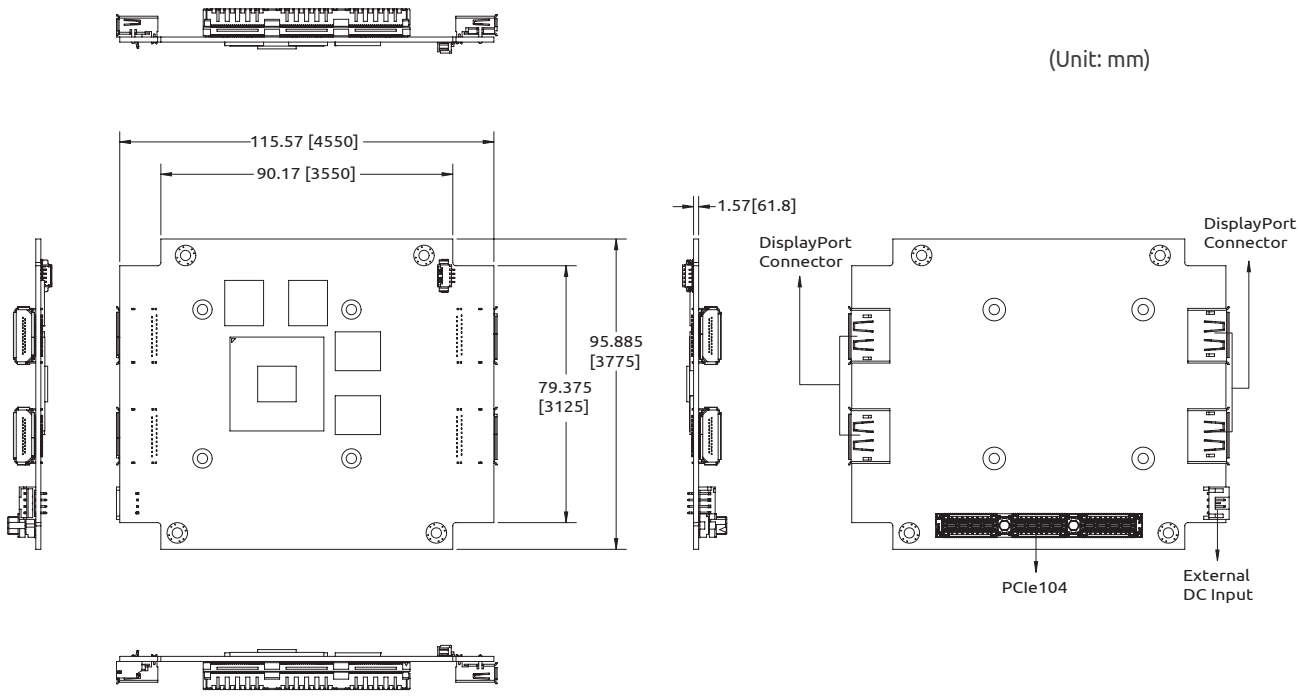
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Functional Diagram



Mechanical Drawings

(Unit: mm)



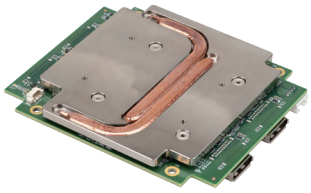
Ordering Information

- **CM5-P1000-DP**
  PCIe/104 Type 1 Graphics module, NVIDIA Quadro P1000 (640 CUDA cores), 4GB GDDR5, 0°C to +60°C
- **CM5-P1000-DP-ETT**
  PCIe/104 Type 1 Graphics module, NVIDIA Quadro P1000 (640 CUDA cores), 4GB GDDR5, -40°C to +85°C

  For conformal coating please contact your local sales representative.

Optional Accessories

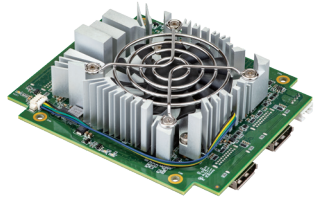
- **CMx-P1000TM-00**
  CM5-P1000-DP heat spreader, -40°C ~85°C
- **CMx-P1000TM-10**
  CM5-P1000-DP passive heat sink, -40°C ~85°C with air flow
- **CMx-P1000TM-20**
  CM5-P1000-DP active heat sink, -10°C ~70°C
- **CMx-P1000TM-30**
  CM5-P1000-DP active heat sink for ETT test, -40°C ~85°C



CMx-P1000TM-00



CMx-P1000TM-10



CMx-P1000TM-20



CMx-P1000TM-30

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