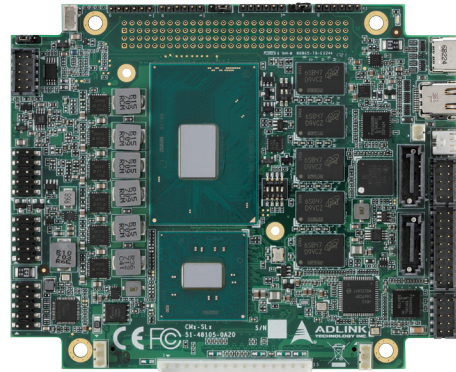


CMx-SLX

PCI/104-Express Type 1 Single Board Computer with 6th Gen. Intel® Core™ Processor

Features

- 6th Gen. Intel® Core™ Processor
- Up to 8GB DDR4-ECC soldered memory
- 3x DDI channels, 1x micro HDMI, 1x mini DP and 1x 18/24 bit single channel LVDS
- 4x PCIe x1 and 1x PCIe x16 (PEG) configurable as 1x PCIe x16 or 2x PCIe x8 or 1x PCIe x8 + 2x PCIe x4
- 2x GbE LAN, 2x SATA 6Gb/s, 1x USB 3.1, 6x USB 2.0 (2x to PCIe/104 bus connector), 2x COM, 8x GPIO
- Featuring SEMA® for easy integration of Hardware monitoring and control
- Extreme Rugged operating temperature -40°C to +85°C (build by BOM options)



Specifications

Processor & System

CPU

6th generation Intel® Core™ i3 Processor (formerly Skylake)
 Intel® Core™ i3-6102E 1.9GHz (no Turbo), 25W (2C/GT2)
 Depending on application requirements, variants with following processors can be offered:

Intel® Core™ i3-6100E 2.7GHz (no Turbo), 35W (2C/GT2)
 Intel® Xeon® E3-1505L v5 2.0/2.8GHz (Turbo), 25W (4C/GT2)

PCH

Intel® CM236 (supports ECC memory, Intel® AMT)

Memory

8GB single channel 1867/2133 MHz DDR4-ECC soldered memory

Onboard Storage

Soldered 8GB SLC SATA-SSD
 Depending on application requirements, variants with following processors can be offered:

16GB SLC/MLC
 32GB SLC/MLC
 64GB MLC

Embedded BIOS

AMI EFI with CMOS backup in 16MB SPI BIOS with Intel® AMT 11.00 support

Cache

3MB for Core™ i3 (Option: 8MB for Xeon® processor)

Expansion Busses

PCI/104-Express Type 1 (stack-down)
 PCI-104 (stack-down)

Audio

Chipset

Intel® HD Audio integrated in chipset
 available on "DisplayPort" and "HDMI" ports

Ethernet

Intel® MAC/PHY

1x Intel® MAC/PHY: i219LM/V (LM with AMT 11.0 support)
 1x Intel® MAC/PHY: i210IT

Interface

10/100/1000 GbE connection

TPM

TPM supported by BIOS

Video

GPU Feature Support

Intel® Generation 9 LP Graphics Core Architecture, supporting 3 independent and simultaneous display combinations of DisplayPort/HDMI/LVDS

Hardware encode/transcode

HD content (including HEVC) DirectX 12, DirectX 11.2, DirectX 11.1, DirectX 11, DirectX 10.1, DirectX 10, DirectX 9 support
 OpenGL 4.4/4.3 and ES 2.0 support
 OpenCL 2.1, 2.0/1.2 support

Digital Display Interface

DDI1/2 supporting DisplayPort/HDMI

LVDS

Single channel 18/24-bit LVDS from eDP-to-LVDS IC

Specifications

• I/O Interfaces

USB

1x USB 3.1 and 6x USB 2.0 (2x USB 2.0 to PCIe/104 bus connector)

SATA

2x SATA 6Gb/s and 1x SATA to onboard SATA-SSD

Serial

2x RS-232

GPIO

8x

SMBus

1x

I²C

1x

• Power

Standard Input

ATX = 5V±5% / 5Vsb ±5% or AT = 5V±5%

Optional Input

Depending on customer application and processor, "5VDC single voltage supply" variant can be offered.

Management

ACPI 5.0 compliant

Power States

C1-C6, S0, S1, S3, S4, S5, S5 ECO mode (Wake-on-USB S3/S4, WOL S3/S4/S5)

ECO mode

Supports deep S5 for power saving

• Operation System

Standard Support

Windows 10 (64-bit), Windows 7 (32/64-bit), Linux YOCTO 64-bit, VxWorks 7 (64-bit), QNX 6.6

• Mechanical and Environmental

Form Factor

PCI/104-Express Specification, Version 3.0

Dimension

117.4 mm x 96 mm

Operating Temperature

Standard: 0°C to +60°C

Extreme Rugged: -40°C to +85°C

Humidity

5-90% RH operating, non-condensing

5-95% RH storage (and operating with conformal coating)

Shock and Vibration

IEC 60068-2-64 and IEC-60068-2-27

MIL-STD-202F, Method 213B, Table 213-I, Condition A and Method 214A, Table 214-I, Condition D

HALT

Thermal Stress, Vibration Stress, Thermal Shock and Combined Test

• Intelligent Middleware

SEMA[®]



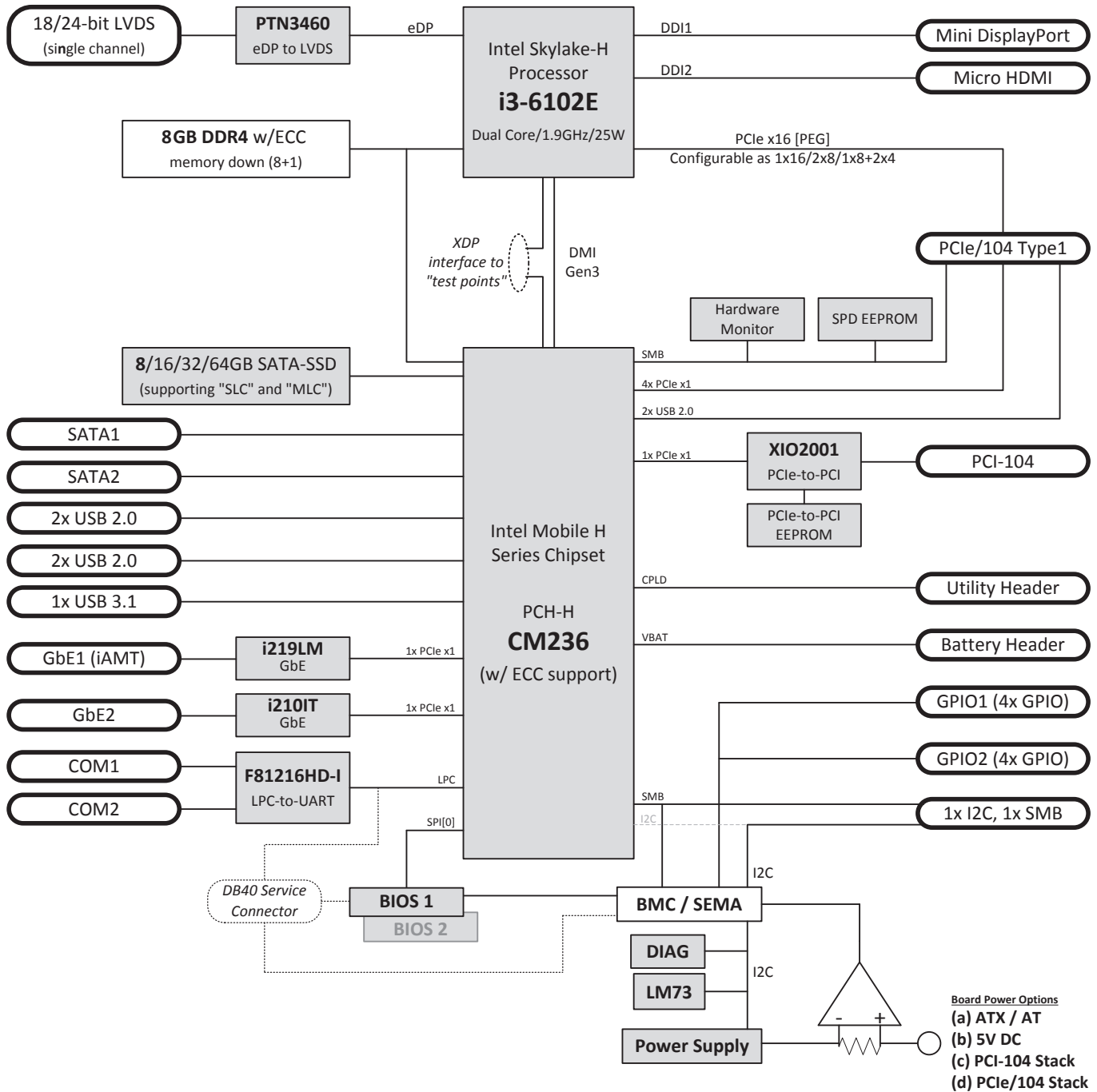
Local management, control of embedded computer systems

Extended EAPI for monitoring, controlling and analytics applications

Multiple OS support and across platforms (x86, ARM)

Functional Diagram

CMx-SLx



Ordering Information

- **CMx-SLx-6102E-8G-8G**

PCI/104-Express Type 1 SBC, Intel® Core™ i3-6102E (1.9GHz), CM236 chipset, 8GB DDR4-ECC, 8GB SLC SATA-SSD, 0°C to +60°C

For other CPU, RAM or SATA-SSD configurations, please contact your local sales representative

Optional Accessories

- **CMx-SLx-X-10**

CMx-SLx Cable Kit

- **CMx-SLx-TM-00**

CMx-SLx Heat Spreader

- **CMx-SLx-TM-10**

CMx-SLx Passive Heat Sink (0°C to +60°C)

- **CMx-SLx-TM-20**

CMx-SLx Active Heat Sink for i3-6102E CPU (-40°C to +85°C)

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[GCS22.2.080.2.2.I](#) [GCS22.8.100.4.2.I](#) [GLS11.2.053.2.2.E](#) [A20-OLINUXINO-LIME-E16GS16M](#) [A20-OLINUXINO-LIME-S16M](#) [A20-](#)
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