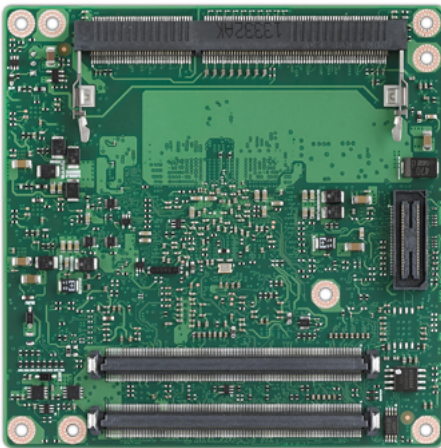
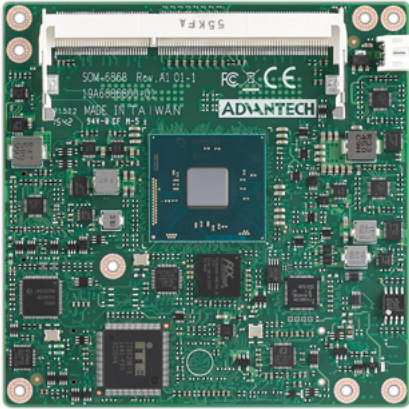


SOM-6868



Intel® Pentium®/Celeron® N3000 Series and Atom™ SoC

PICMG COM Express R2.1 Compact Module Type 6 pin out

Supports 5x PCIe x1

4x USB 3.0

8x USB 2.0

2x SATA III

1x 10/100/1000

Rich display interface : LVDS/eDP, HDMI/DP

Up to 3 independent display

Supports Wide Range Power input support from 4.75~20V

SOM-6868 is equipped with the new Intel® Pentium® N3710, Celeron® N3160/ N3060/N3010, and Atom™ X5-E8000 single-chip processors, which are built with the latest Intel® 14-nm process technology, providing better performance with lower power consumption. The integrated, new graphics core boasts displays resolutions up to 4K2K and supports state-of-the-art hardware accelerators that perform well beyond previous platforms. So the SOM-6868 is suitable for low-power, yet graphic intense application fields such as medical, digital signage, and portable instruments. Intel® gen 8 graphics are integrated with up to 16 EUs (execution units) delivering 2x the graphics performance compared with the previous platform. With the new graphics core, this Compact Module provides rich display interfaces such as LVDS, eDP, HDMI, and DisplayPort, and can support three simultaneous and independent display outputs. Up to 3840 x 2160 (4K) resolution satisfies high-quality display requirements. It's also the first low-power platform that supports an H.265/HEVC hardware decoder that accelerates 4K playback. The SOM-6868 provides advanced features that can satisfy a wide range of applications. This product is designed to support wide-range voltage inputs from 4.75 to 20V; this provides flexible options to fulfill various application user scenarios. SOM- 6868 also incorporates a rich array of I/O interfaces including 5 PCIe x1 links that optionally support x4 and x2 configurations, and offers one Intel® i211AT Gigabit Ethernet controller, 2 SATA Gen3, 8 USB 2.0, 4 USB 3.0, 2 COM ports, SMBus, I2C, and HD audio interface functions.

Specifications

SOM Type:

COM Express Modules

Processor

Intel® Pentium® N3710/Celeron® N3160/Atom® E8000

Clock Speed:

1.6 GHz

Real Time Clock:

Processor Misc.:

N3710: Quad core 1.6-2.56 Ghz/ 6W

N3160: Quad core 1.6-2.24 Ghz/ 6W

N3060: Dual core 1.6-2.48 Ghz/ 6W

N3010: Dual core 1.04-2.24 Ghz/ 4W

X5-E8000: Quad core 1.04-2 Ghz/ 5W

Memory

BIOS/ Bootloader:

AMI UEFI BIOS @ 64 Mb

Primary Flash:

SATA

Memory Misc.:

Up to 8GB dual channel DDR3L in 2x memory sockets

Primary I/O

8-bit GPIO

Disk Interface:

2x SATA III

Video Out:

LVDS & 2x DDI ports support configurable HDMI/DVI/DP

Audio:

HD audio interface

Ethernet:

2x 10/100/1000 Mbps Intel I211

USB:
4x USB 3.0 & 8x USB 2.0
Serial Ports:
2x COM ports
Watchdog:
Secondary I/O
1x I ² C Port.
Keypad:
PS/2:
Analog on
A/D.
D/A:
Dimensions
Dimensions.
3.74 × 3.74 in
Form Factor:
COM Express compact
Power Requirements
Power misc.:
Vin: 4.75 V (5-5%) ~ 20 V (19+5%), VSB: 5 V ±5%, RTC Battery: 2.0-3.3 V
Environmental
Low Operating Temperature:
0 C
High Operating Temperature:
60 C
Upper Operating Humidity:
95%
Pricing
SOM-6868AC-S0
SOM-6868AC-S0A1E, X5-E8000 4x1.04GHz, SODIMM, 2xSATA, 2xCOM, 4x USB3, 8x USB2, GbE, 2x DDI, LVDS
\$235.00
Order:
0
Parent Product:
SOM-6868
Base Product:
SOM-6868
SOM-6868PC-S6
SOM-6868PC-S6A1E, N3160 4x1.6GHz, SODIMM, 2xSATA, 2xCOM, 4x USB3, 8x USB2, GbE, 2x DDI, LVDS
\$270.00
Order:
0
Parent Product:
SOM-6868
Base Product:
SOM-6868
SOM-6868RC-S0
SOM-6868RC-S0A1E, N3010 2x1.04GHz, SODIMM, 2xSATA, 2xCOM, 4x USB3, 8x USB2, GbE, 2x DDI, LVDS
\$235.00
Order:
0

Parent Product:

SOM-6868

Base Product:

SOM-6868

SOM-6868RC-S5

SOM-6868RC-S5A1E, N3060 2x1.6GHz, SODIMM, 2xSATA, 2xCOM, 4x USB3, 8x USB2, GbE, 2x DDI, LVDS

\$235.00

Order:

0

Parent Product:

SOM-6868

Base Product:

SOM-6868

SOM-6868RC-S6

SOM-6868RC-S6A1E, N3160 4x1.6GHz, SODIMM, 2xSATA, 2xCOM, 4x USB3, 8x USB2, GbE, 2x DDI, LVDS

\$250.00

Order:

0

Parent Product:

SOM-6868

Base Product:

SOM-6868

Non-Stock NCNR:

0

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