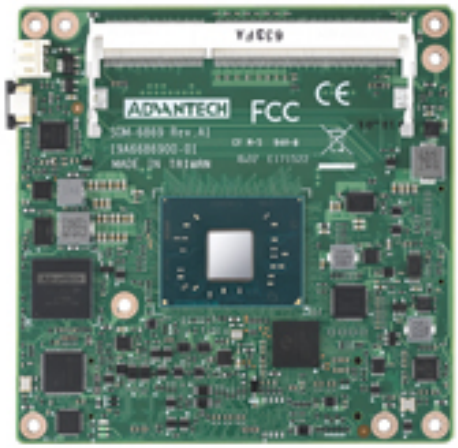
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SOM-6869





Intel® Pentium® N4200, Celeron® N3350, and Atom® E3900 Series

Atom® x7-E3950, x5-E3940 or x5-E3930

COM Express Compact Module Type 6

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

Supports 5 PCIex1, 2 USB 3.0, 8 USB 2.0

Rich display interface: LVDS/eDP, HDMI/DP/VGA

Supports up to 3 simultaneous display

Native extended temperature

Supports wide range power input from 4.75 ~ 20 V

SOM-6869 is equipped with the new Intel® Pentium® N4200, Celeron® N3350, and AtomTM X7-E3950/X5-E3940/X5-E3930 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-6869 is suitable for low-power, yet graphic intense application fields such as medical, digital signage, and portable instruments.

Intel® gen 9 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-6869 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-6869 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® i210 Gigabit Ethernet controller, 2x SATA Gen3, 8x USB 2.0, 2x USB 3.0, 2 COM ports, SMBus, I2C, and HD audio interface functions.

Specifications

SOM Type:
COM Express Modules

Processor

Processor:
Intel® Pentium® N4200/Celeron® N3350/Atom® E3900
Clock Speed:
2.5 GHz
Real Time Clock:
Processor Misc.:
N4200: Quad core 1.1-2.56 Ghz/ 6W
N3350: Dual core 1.1-2.4 Ghz/ 6W
X7-E3950: Quad core 1.6-2.0 Ghz/ 12W
X5-E3940: Quad core 1.6-1.8 Ghz/ 9W
X5-E3930: Dual core 1.2-1.8 Ghz/ 6W

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

GPIO:
8-bit GPIO programmable
Disk Interface:
2x SATA III
Video Out:
VGA
LCD & DDI (HDMI
DP & eDP)
SPI:
SPI BIOS EEPROM
Audio:
Intel HD Audio Interface

Ethernet:
1x 10/100/1000 Mbps Intel i210
USB:
2x USB 3.0 & 8x USB 2.0
Serial Ports:
2x COM ports
Watchdog:

Secondary I/O

LPT 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.:
Type ATX: Vin, VSB; AT: Vin

Supply Voltage Vin: 4.75V (5-5%) ~ 20V (19+10%);

VSB: 5 +/-5%

Environmental

Low Operating Temperature:
0 C
High Operating Temperature:
60 C
Upper Operating Humidity:
95%
Environmental Misc.:
Temperature Operating Standard: 0 ~ 60° C (32 ~ 140° F) Extend: -40 ~ 85° C (-40 ~ 185° F) Storage: -40 ~ 85° C (-40 ~ 185° F) Humidity Operating: 40° C @ 95% relative humidity, non-condensing Storage: 60° C @ 95%relative humidity, non-condensing

Pricing

Non-Stock NCNR:
0

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