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COM-36024 COMe-cAL6



Intel Apollo Lake Pentium, Celeron, Atom E3900

Low-power – performance/watt optimized form factor solution

Triple display support

2x SODIMM socketUp to 8 GByte DDR3L 1600 / 1867 Memory

4x USB 3.0/2.0

4x USB 2.0

2x SATA

eMMC Flash onboard (32GB, 64GB, 128GB SLC Flash options)

Industrial grade temperature

The COMe-cAL6 COM Express compact Type 6 module is highly scalable and covers the entire range of Intel's latest IoT-ready embedded processors. A broad range of module variants, based on five different processor types, make up the COMe-cAL6 portfolio. Versions range from a cost optimized dual-core Intel Celeron (2x 1.1/2.4 GHz with 6W TDP) iteration optimized for energy-sensitive applications to genuine quad-core Intel Atom (4x 1.6/2.0 GHz with 12W TDP) and Intel Pentium (4x 1.1/2.5 GHz with 6W TDP) versions for high-end applications.

Users benefit from a significantly improved computing performance, an impressive performance-per-watt ratio and the long-term availability inherent in all embedded solutions.

An added advantage for developers is the optional integration of additional hardware-based embedded Security Solution APPROTECT. This is the first embedded computing system to offer full security protection embedded in the COM and motherboard offerings.

Specifications

SOM Type:
COM Express Modules

Processor

Processor:

INTEL® ATOM™ E3900 SERIES/ PENTIUM® AND CELERON® PROCESSORS

Clock Speed:

2.5 GHz

Real Time Clock:

Processor Misc.:

Intel®

Atom™ x7-E3950, 4x 1.6/2.0 GHz, 12 W TDP

Atom™ x5-E3940, 4x 1.6/1.8 GHz, 9.5 W TDP

Atom™ x5-E3930, 2x 1.3/1.8 GHz, 6.5 W TDP

Pentium® N4200, 4x 1.1/2.5 GHz, 6 W TDP

Celeron® N3350, 2x 1.1/2.4 GHz, 6 W TDP

Memory

BIOS/ Bootloader:

AMI Aptio V

Primary Flash:

Up to 128 GByte eMMC onboard

Secondary Flash:

SATA

Primary I/O

SDIO:

shared with GPIO

Disk Interface:

2x SATA III & SDIO

Video Out:

DDI

DP++

LVDS

SPI:

1

Audio:

Intel® High Defi nition Audio

Ethernet:

Intel® I210IT / I211AT

USB:

4x USB 3.0/2.0

4x USB 2.0 (3x USB 2.0 w/o Security Chip)

Serial Ports:

2x Serial ports (2-wire)

I2C:

1

Watchdog:

Secondary I/O

LPT Port:

Keypad:

PS/2:

Expansion

Bus Misc.:

3x PCIe x1

on request:

- w/ LAN and PCIe hub: 5x PCIe x1 or 1x PCIe x2 + 3x PCIe x1

- w/o LAN and PCIe hub: 2x PCIe x2 or 1x PCIe x4

Analog

A/D:

D/A:

Dimensions

Dimensions:

3.74 × 3.74 in

Form Factor:

COM Express compact

Power Requirements

Power Misc.:

8.5 V – 20 V Wide Range, Single Supply Power

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Environmental Misc.:

COMe-cAL6 - commercial temperature: 0 °C to +60 °C operating, -30 °C to +85 °C non-operating COMe-cAL6 E2 - industrial temperature: -40 °C to +85 °C operating, -40 °C to +85 °C non-operating

Pricing

Non-Stock NCNR:

0

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