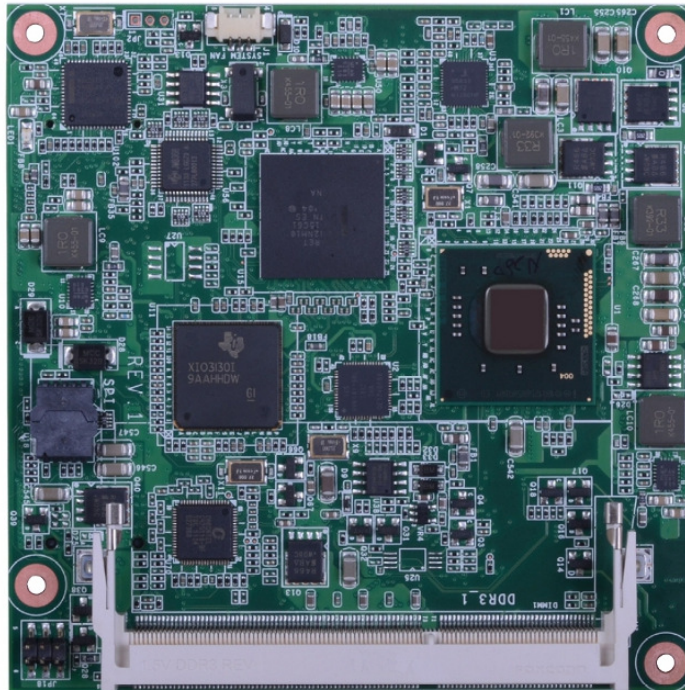


H6816 is available with three processor options. In the lower end of the performance span, Intel® Atom™ N2600 is found and turns H6816 into a fan-less platform with dual core performance and only 3.5 Watt TDP.

Normally COM modules with this Intel® Atom™ processor platform offer single channel 18-bit LVDS only. H6816 is an exception offering Dual Channel 24-bit LVDS directly from the module for applications requiring dual independent 24-bit displays.



Features

- Dual-core CPU options:
 - Intel® Atom™ N2600 (3.5W TDP)
 - Intel® Atom™ N2800 (6.5W TDP)
 - Intel® Atom™ D2550 (10W TDP)
- Intel® NM10 Chipset
- 1 DDR3 SODIMM memory, up to 2GB
- 4 PCIe x1, 4 PCI
- 8 USB, 8-bit DIO, 1 IDE
- 1 VGA, 1 LVDS
- 1 Gigabit LAN

H6816 - Technical Specifications

Processor

- Intel® Atom™ N2600, 1.6GHz, 2x 512K L2, 3.5W TDP, dual-core
- Cooling option: Heatsink (fan-less solution)
- Intel® Atom™ N2800, 1.86GHz, 2x 512K L2, 6.5W TDP, dual-core
- Cooling option: Heatsink (fan-less solution)
- Intel® Atom™ D2550, 1.86GHz, 2x 512K L2, 10W TDP, dual-core
- Cooling option: Heatsink with cooling fan

Chipset

Intel® NM10 Express chipset

System Memory

One 204-pin DDR3 SODIMM socket

- Supports DDR3 1066MHz up to 4GB (Intel® Atom™ D2550/N2800)
- Supports DDR3 800MHz up to 2GB (Intel® Atom™ N2600)

Single channel memory interface

DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3
DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

Onboard Graphics Features

Intel® GMA 3650 (Intel® Atom™ D2550/N2800)
Intel® GMA 3600 (Intel® Atom™ N2600)

LVDS and VGA interfaces

LVDS: Chrontel CH7511B, 24-bit, dual channel

VGA display resolution up to 1920x1200

Hardware H.264/AVC, MPEG-2 video decoder, VC-1, DirectX 9, 1080p decoder

Onboard Audio Features

Supports High Definition Audio interface

Onboard LAN Features

Intel® 82574 Gigabit Ethernet Controller

Integrated 10/100/1000 transceiver

Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

Supports wire management

Serial ATA (SATA) Interface

2 Serial ATA interfaces

SATA 2.0 with data transfer rate up to 3Gb/s

Integrated Advanced Host Controller Interface (AHCI) controller

Watchdog Timer (Optional)

Watchdog timeout programmable via software from 1 to 256 seconds

Expansion Interfaces

8 USB 2.0 ports

4 PCI interfaces

8-bit Digital I/O

1 IDE interface

Damage Free Intelligence

Monitors CPU temperature and overheat alarm

Monitors CPU fan speed and failure alarm

Monitors Vcore/VGFX/1.5V voltages and failure alarm

Watchdog timer function

BIOS

16Mbit SPI BIOS

Temperature

Operating: 0 °C to 60 °C

Storage: -20 °C to 85 °C

Humidity

10% to 90%

Power Input

- 12V, 5VSB, VCC_RTC (ATX mode)
- 12V, VCC_RTC (AT mode)

Regulatory

EMC: CE, FCC Part 15 Class B

PCB

Dimensions:

- COM Express Compact
- 95mm (3.74") x 95mm (3.74")

Compliance

- PICMG COM Express R2.0, Type 2

COM Express® is a registered trademark of the PCI Industrial Computer Manufacturers Group

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