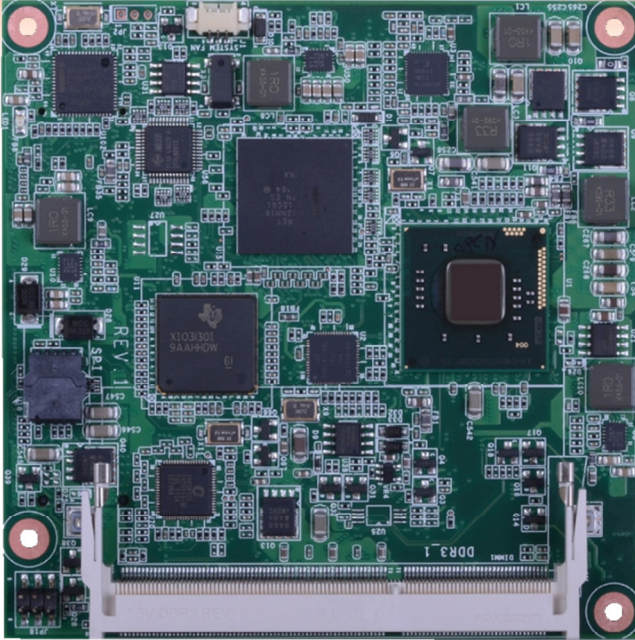


H6816

Intel® Atom™ N2600 COM Express® Compact



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 fanless 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

LOOKING FOR SOMETHING SLIGHTLY DIFFERENT?

In most cases standard products can be customized to your specification. With small modifications to hardware and software, you can have the qualities and functions you need.

Call us. We will be happy to suggest and implement changes in standard products to meet your requirements exactly.

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: Chronitel 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.