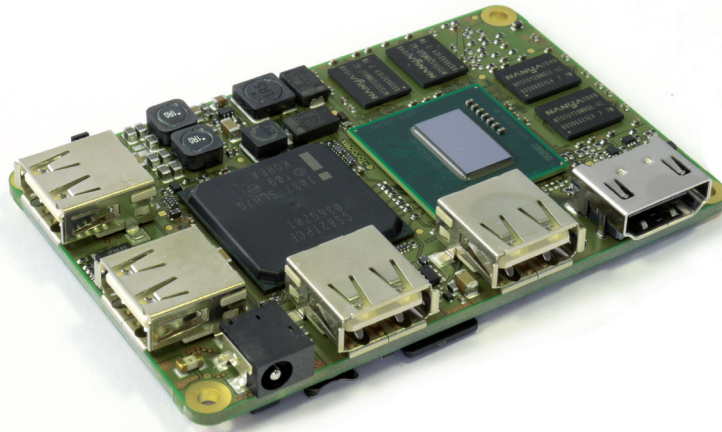


Topaz Single Board Computer based on Intel® Atom™ E6xx



Standard Functionality – Minimum Size

Topaz is one of the world's smallest x86 Single Board Computers (SBC). It features the latest Intel® Atom™ E6xx CPU with the Intel® EG20T chipset. Despite its credit card size, it provides the functions of a standard x86 computer with extremely low power consumption. Topaz is very thin – just 12mm! Long time availability is guaranteed due to the selection of embedded product line components.

Accelerate your Graphic Performance

The Intel® Atom™ E6xx integrates the new Intel Graphics Media Accelerator 600 (GMA600) 2D/3D graphics engine. It features hardware acceleration for video decoding and encoding*.

Reduced to Flexibility

The primary interfaces of the Topaz SBC include 4 USB2.0, a bootable microSD Card Slot and a DVI-D output on a HDMI connector. Need a Wi-Fi, LAN, UMTS/GPRS, Bluetooth®, Audio or other interface? No problem. Today, USB adaptors are available for these needs. Some of these adaptors are even available with incredible small package. Configure your system according to your needs with maximum flexibility. With the Topaz SBC, you never pay for interfaces that you do not need – and can easily add those you do.

Expand your System

On the bottom side, the Topaz SBC features two 50 pin expansion connector. This allows adding a customized board on the bottom of Topaz with your special needs. Topaz can be used like a computer module but much easier.

Power it up

The Topaz SBC requires only a single 5V DC power supply. It can be powered either over the EIAJ-02 coaxial power connector or over the expansion connector. Topaz supports suspend mode (S3) and Hibernation (S4) and can be configured to boot without any power button interaction when 5V supply is attached.

CPU

Intel® Atom™ E6xx (up to 1.6GHz)

Chipset

Intel® IOH EG20T

CPU Features

Intel® Hyper Threading
Intel® Virtualization Technology

Memory

1GB - 2GB DDR2 RAM (32Bit, 800MT)

Integrated Graphics

Up to Full HD resolution (1920x1080)
Dual Independent Display
Graphic Freq: 320/400MHz*
OpenGL® ES2.0
OpenVG™
DirectX® 9.0c

H/W video encode*

MPEG4, H.264

H/W video decode

MPEG2, MPEG4, VC1, WMV9, H.264

Real World Interfaces

1x DVI-D (on HDMI connector)
4x High-Speed USB 2.0
microSD Card Slot (SDHC)

Interfaces on Expansion Connectors

1x LVDS Single Channel
2x PCIe
2x High-Speed USB 2.0
2x SATA
1x Intel® High Definition Audio
1x SDIO (4bit)
1x LPC
1x SMB
1x I2C
4x GPIO
2x UART (RS232)
1x CAN

Power Supply

5VDC

Size

55 x 84 x 12.7 mm

*depending on CPU version