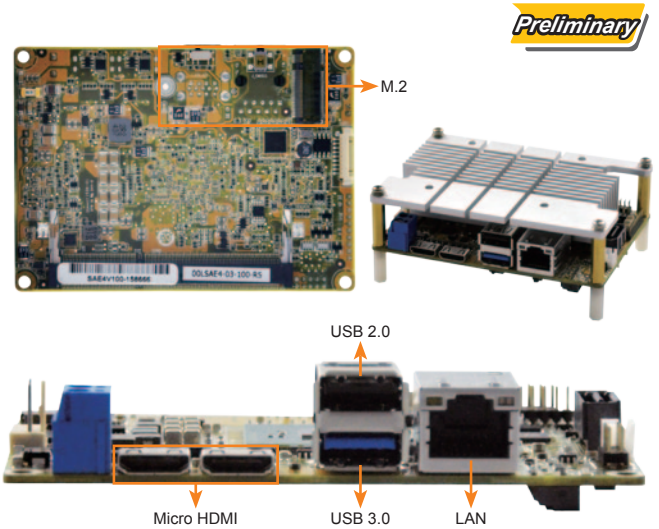
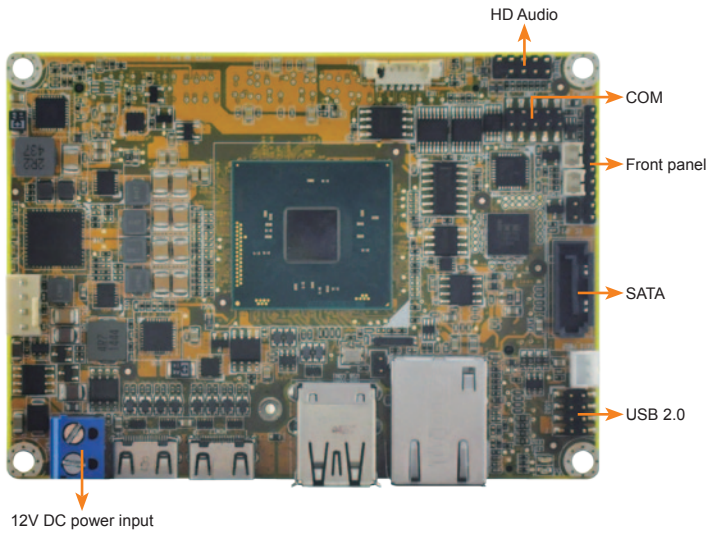


# HYPER-BW

Pico-ITX SBC with Intel® 14nm Pentium®/Celeron® on-board SoC with dual Micro HDMI, M.2, GbE, USB 3.0, SATA 6Gb/s, COM, Audio and RoHS



Preliminary

## Specifications

- ◆ SoC
  - Intel® Pentium® N3710 on-board SoC (up to 2.56GHz, quad-core, 2MB cache, TDP=6W)
  - Intel® Celeron® N3160 on-board SoC (up to 2.24GHz, quad-core, 2MB cache, TDP=6W)
  - Intel® Celeron® N3060 on-board SoC (up to 2.48GHz, dual-core, 2MB cache, TDP=6W)
  - Intel® Celeron® N3010 on-board SoC (up to 2.24GHz, dual-core, 2MB cache, TDP=4W)
- ◆ BIOS
  - AMI UEFI BIOS
- ◆ Memory
  - One 204-pin 1333/1600 MHz single-channel DDR3L SDRAM unbuffered SO-DIMM slot support up to 8 GB
- ◆ Graphics Engine
  - Intel® HD Graphics Gen 8 Engine with 16 low-power execution units, supporting DX11.1, OpenGL 4.2 and OpenCL 1.2
- ◆ Display Output
  - Dual independent display
  - 2 x Micro HDMI (up to 3840x2160@30Hz)
- ◆ Ethernet
  - LAN1: Realtek RTL8111 controller
- ◆ External I/O Interface
  - 1 x USB 2.0
  - 1 x USB 3.0
- ◆ Internal I/O Interface
  - 1 x RS-232 (1x9 pin, P=1.25)
  - 1 x SATA 6G/s with 5V SATA power connector (No RAID) (SATA port0)
  - 2 x USB 2.0 (2x4 pin, P=2.0)
- ◆ Audio
  - 1 x HD Audio (2x5 pin)
- ◆ Front Panel
  - 1 x Front panel (1x10 pin, power LED, HDD LED, power button, reset button)
- ◆ LAN LED
  - 1 x LAN LED (1x2 pin)
- ◆ Expansion
  - 1 x M.2 (B Key)
- ◆ Fan Connector
  - 1 x Smart fan connector (1x4 pin)
- ◆ Power Supply
  - 12V DC input only
  - 1 x Power terminal block (1x2 pin)
  - Support AT/ATX mode
- ◆ Power Consumption
  - 12V@1.52A (Intel® Pentium® processor N3710 with 8 GB 1600 MHz DDR3L memory)
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Operating Temperature
  - 20°C ~ 60°C
- ◆ Storage Temperature
  - 30°C ~ 70°C
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Vibration
  - 3G
- ◆ Dimensions
  - 100mm x 72mm
- ◆ Weight
  - GW:30g / NW:250g



## Features

- Pico-ITX SBC supports Intel® 14nm Pentium®/Celeron® on-board SoC
- IEI jumper-less function
- Dual independent display support
- 1333/1600 MHz 1.35V DDR3L SDRAM up to 8 GB supported
- COM, USB 3.0, SATA 6Gb/s and Audio support
- 1 x M.2 B key slot for expansion possibility
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Packing List

1 x HYPER-BW single board computer
1 x Audio cable
1 x Power cable
1 x RS-232 cable
2 x SATA with power cable kit
1 x One Key Recovery CD
1 x QIG (Quick Installation Guide)
1 x Utility CD

## Ordering Information

Part No.	Description
HYPER-BW-N4-R10 Art.-Nr.: 147936	Pico-ITX SBC with Intel® Pentium® 14nm quad-core N3710 up to 2.56GHz (6W) on-board SoC with dual Micro HDMI, PCIe GbE, M.2, USB 3.0, SATA 6Gb/s, COM, Audio and RoHS
HYPER-BW-N3-R10 Art.-Nr.: 147935	Pico-ITX SBC with Intel® Celeron® 14nm quad-core N3160 up to 2.24GHz (6W) on-board SoC with dual Micro HDMI, PCIe GbE, M.2, USB 3.0, SATA 6Gb/s, COM, Audio and RoHS
HYPER-BW-N2-R10 Art.-Nr.: 147934	Pico-ITX SBC with Intel® Celeron® 14nm dual-core N3060 up to 2.48GHz (6W) on-board SoC with dual Micro HDMI, PCIe GbE, M.2, USB 3.0, SATA 6Gb/s, COM, Audio and RoHS
HYPER-BW-N1-R10 Art.-Nr.: 147933	Pico-ITX SBC with Intel® Celeron® 14nm dual-core N3010 up to 2.24GHz (4W) on-board SoC with dual Micro HDMI, PCIe GbE, M.2, USB 3.0, SATA 6Gb/s, COM, Audio and RoHS
32000-070301-RS	Dual-port USB cable