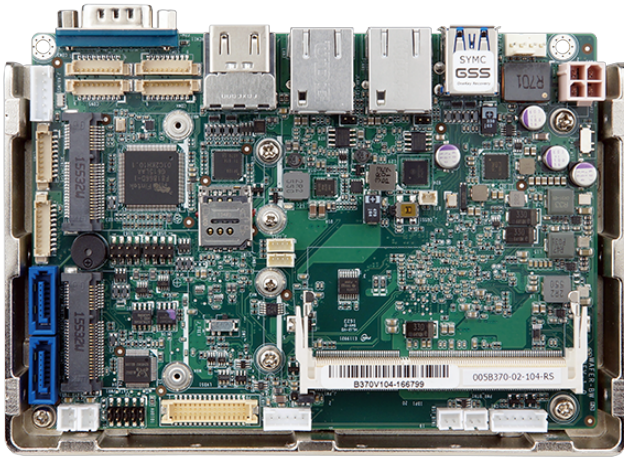


# WAFER-BW

3.5" SBC with Intel® 14nm Pentium®/Celeron® on-board SoC



## Features

- » 3.5" SBC supports Intel® 14nm Pentium®/Celeron® on-board SoC
- » Triple independent display support
- » 1.35V DDR3L 1333/1600 MHz SDRAM up to 8 GB
- » COM, USB 3.0, SATA 6Gb/s, PCIe Mini, mSATA and Audio support
- » Two full-size PCIe Mini slots (one with SIM holder for WLAN/WWAN expansion)
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

System	
CPU	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)
Memory	One 204-pin 1333/1600 MHz single-channel DDR3L SDRAM unbuffered SO-DIMM
Memory Max.	8GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	146 X 102
Net Weight	250
Storage	
Storage	2 x SATA 1 x mSATA 1 x eMMC :4.51 (optional)
I/O Interface	
Display Output	2 x HDMI :up to 3840x2160@30Hz 1 x LVDS :18/24-bit dual-channel (up to 1920x1200@60Hz)
Ethernet	2 x LAN :1 x Realtek RTL8111GN controller, 1 x Realtek RTL8111GN controller
Audio	Description: Realtek ALC662 HD codec 1 x Front Audio :2x5 pin
I/O Interface	1 x External RS-232 3 x Internal RS-232 :1x9 pin, P=1.25 2 x Internal RS-232/422/485 :1x9 pin, P=1.25 2 x External USB 3.2 Gen1x1 :no real I/O 4 x Internal USB 2.0 :2x4 pin, P=2.0 1 x PS/2 :1x6 pin
Expansion	2 x PCIe mini Card Slot :1 x support mSATA co-layout with SATA port 2, 1 x support SIM card
Power	
Power Consumption	12V@1.52A (Intel® Pentium® processor N3710 with 8 GB 1600 MHz DDR3L memory)
Power Supply	12V only DC input, 1 x Internal power connector (2x2 pin) Support AT/ATX mode
Environment	
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~ 95%, non-condensing

Certifications	
Safety & EMC	CE/FCC compliant

## Ordering Information

WAFER-BW-N4-R10	3.5" SBC supports Intel® Pentium® quad-core processor N3710 up to 2.56GHz (6W) with dual HDMI and LVDS, Dual PCIe GbE, PCIe Mini, USB 3.0, SATA 6Gb/s, mSATA, COM, Audio and RoHS
WAFER-BW-N3-R10	3.5" SBC supports Intel® Celeron® quad-core processor N3160 up to 2.24GHz (6W) with dual HDMI and LVDS, Dual PCIe GbE, PCIe Mini, USB 3.0, SATA 6Gb/s, mSATA, COM, Audio and RoHS
WAFER-BW-N2-R10	3.5" SBC supports Intel® Celeron® dual-core processor N3060 up to 2.48GHz (6W) with dual HDMI and LVDS, Dual PCIe GbE, PCIe Mini, USB 3.0, SATA 6Gb/s, mSATA, COM, Audio and RoHS

## Packing List

1 x WAFER-BW single board computer	1 x Audio cable
1 x Power cable	1 x RS-232/422/485 cable
2 x SATA with power cable kit	1 x QIG (Quick Installation Guide)