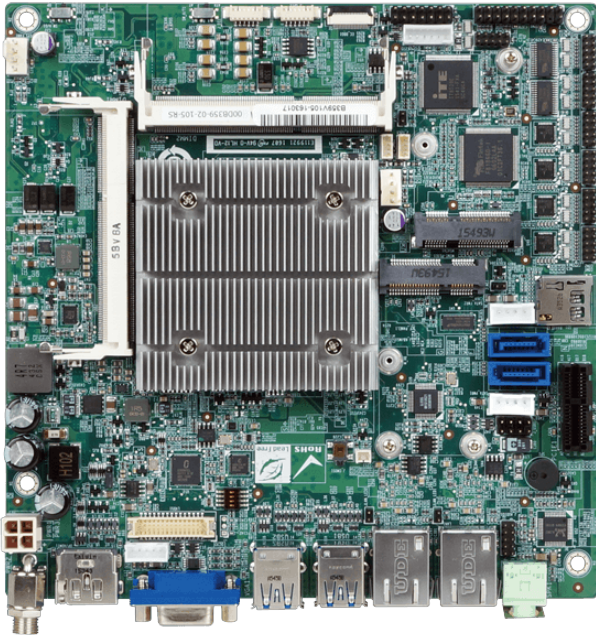


tKINO-BW

Thin Mini-ITX SBC supports 14nm Intel® Pentium®/Celeron® on-board SoC



Features

- » Thin Mini-ITX form factor with 14nm Intel® Pentium®/Celeron® on-board SoC processor supports DDR3L memory
- » Supports USB 3.0, two SATA 6Gb/s
- » Triple independent display, supporting 4K resolution
- » Supports IEI jumperless function

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	Two 204-pin 1333/1600 MHz single-channel DDR3L SDRAM unbuffered SO-DIMM
Memory Max.	8GB
Physical Characteristics	
Net Weight	400g
Storage	
Storage	1 x mSATA:colay SATA2 2 x SATA:6Gb/s with 5V output 1 x SD/MicroSD card
I/O Interface	
Display Output	1 x LVDS:18/24-bit dual-channel (up to 1920x1200@60Hz) 1 x VGA:up to 1920x1200@60Hz
Ethernet	1 x Description:Dual Realtek RTL8111E PCIe GbE controller
Audio	Description:Realtek ALC662 HD codec 1 x Front Audio:2x5 pin 1 x Line out:on rear IO 1 x Speaker:1x4 pin
I/O Interface	1 x DIO:8-bit digital I/O (2x5 pin) 4 x Internal RS-232:2x5 pin, P=2.0 2 x Internal RS-232/422/485:2x5 pin, P=2.0 2 x Internal USB 2.0:2x4 pin, P=2.54 1 x PS/2:1x6 pin
Expansion	1 x PCIe mini Card Slot 1 x PCIe x1
Other Features	

TPM	2x10 pin
Power	
Power Consumption	12V@1.61A (Intel® Celeron® N3710 CPU with two 4 GB 1600 MHz DDR3L memory)
Power Supply	1 x External DC power jack (ø5.5 mm)
	1 x Internal power connector (2x2 pin) Input Voltage Range: 9V ~ 30V
	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

tKINO-BW-N4-R20	Thin Mini-ITX SBC supports Intel® Pentium® quad-core processor N3710 up to 2.56GHz (6W), VGA/LVDS/DP+HDMI™, SATA, dual GbE, USB 3.0, HD Audio and RoHS
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Packing List

1 x tKINO-BW single board computer with heatsink	1 x I/O shielding
1 x SATA cable	1 x QIG