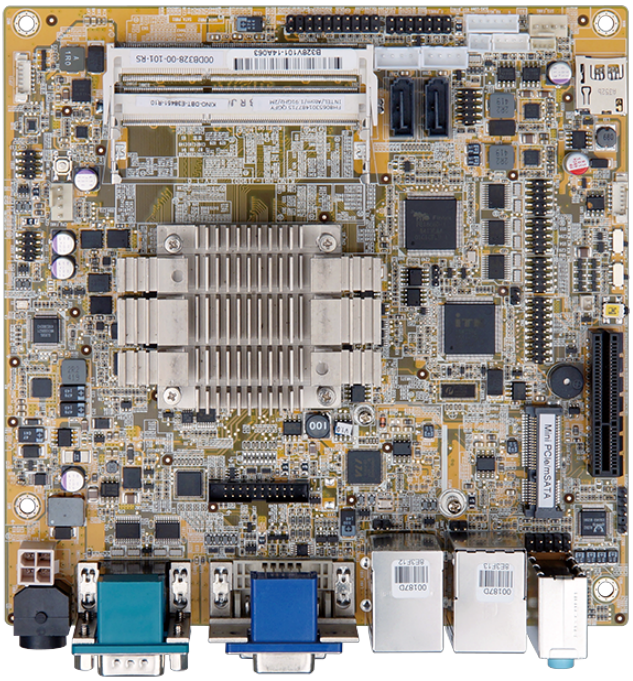
KINO-DBT

Mini-ITX SBC supports 22nm Intel® Atom™ or Celeron® on-board SoC,



Features

» Mini-ITX SBC with 22nm Intel® Atom™ on-board SoC

» 1.35V DDR3L 1066/1333 MHz SDRAM supporting up to 8 GB of memory

» Dual independent display support

» COM, USB 3.0, SATA 6Gb/s, PCIe Mini, mSATA and HD Audio support

» Support Intel® VT-x techology

Specifications

System	
CPU	Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W)
	Intel® Atom™ E3827 on-board SoC (1.75GHz, dual-core, 1MB cache, TDP=8W)
	Intel® Atom™ E3826 on-board SoC (1.46GHz, dual-core, 1MB cache, TDP=7W)
	Intel® Atom™ E3825 on-board SoC (1.33GHz, dual-core, 1MB cache, TDP=6W)
	Intel® Atom™ E3815 on-board SoC (1.46GHz, single-core, 512KB cache, TDP=5W)
	Intel® Celeron® J1900 on-board SoC (2GHz, quad-core, 2MB cache, TDP=10W)
	Intel® Celeron® N2930 on-board SoC (1.83GHz, quad-core, 2MB cache, TDP=7.5W)
	Intel® Celeron® N2807 on-board SoC (1.58GHz, dual-core, 2MB cache, TDP=4.5W)
Memory	Two 204-pin 1066/1333 MHz dual-channel unbuffered DDR3L SDRAM SO-DIMM
Memory Max.	8 GB (J1900, N2930, E3845, E3827, E3826,E3825, E3815) or 4 GB (N2807)
Physical Characteristics	
Dimensions (LxWxH) (mm)	170 X 170
Net Weight	400g
Storage	
Storage	2 x SATA :3Gb/s
	1 x mSATA :colay STAT2
	1 x SD/MicroSD card :E38XX sku only
I/O Interface	
Display Output	1 x VGA :up to 2560x1600@60Hz
	1 x DVI-D :up to 1920x1080@60Hz
	1 x iDP :interface for HDMI, LVDS, VGA, DVI, DP (up to 2560x1600@60Hz)
Ethernet	2 x LAN : (detail as below)
	LAN1: Realtek RTL8111HN PCIe GbE controller
	LAN2: Realtek RTL8111HN PCIe GbE controller
Audio	Description: Realtek ALC662 HD Audio codec supports 5.1-channel
	1 x Line in :on rear IO
	1 x Line out :on rear IO

	1 x Mic :on rear IO
	1 x S/PDIF :1x5 pin
	1 x Front Audio :2x5 pin
I/O Interface	2 x External RS-232
	3 x Internal RS-232 :2x5 pin, p=2.0
	1 x Internal RS-422/485 :1x4 pin, p=2.0
	2 x External USB 2.0
	2 x External USB 3.2 Gen1x1
	4 x Internal USB 2.0 :2x4 pin, p=2.0
	1 x PS/2 :1x6 pin
Expansion	1 x PCIe x4 :with PCIe X 1 signal
	1 x PCIe mini Card Slot :Full-Size slot
Other Features	
TPM	2x10 pin
Power	
Power Consumption	12V@1.64A (Intel® Celeron® J1900 CPU with 4 GB 1333 MHz DDR3L memory)
Power Supply	12V DC input
	1 x External DC jack (4-pin DIN)
	1 x Internal power connector (2x2 pin)
Environment	
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~ 95%, non-condensing
Certifications	
Safety & EMC	CE/FCC compliant

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Ordering Information

KINO-DBT-N29301-R10	Mini-ITX SBC supports Intel® Celeron® Quad-Core Processor N2930(7.5W), VGA/DVI/iDP, Dual Realtek® PCIe GbE, USB 3.0, SATA, HD Audio, RoHS
KINO-DBT-N28071-R10	Mini-ITX SBC supports Intel® Celeron® Dual-Core Processor N2807(4.3W), VGA/DVI/iDP, Dual Realtek® PCIe GbE, USB 3.0, SATA, HD Audio, RoHS
KINO-DBT-J19001-R10	Mini-ITX SBC supports Intel® Celeron® Quad-Core Processor J1900(10W), VGA/DVI/iDP, Dual Realtek® PCIe GbE, USB 3.0, SATA, HD Audio, RoHS

Packing List

1 x KINO-DBT single board computer	1 x SATA cable with power output cable
1 x IO shielding	1 x QIG