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Technical Specs

TECHNICAL SPECS

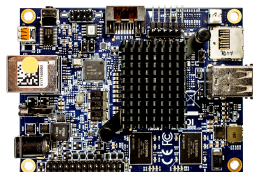
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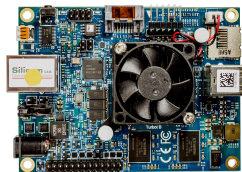
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MinnowBoard Turbo Dual-Core



MinnowBoard Turbo Quad-Core



PEDIGREE

Processor
name/number

Dual-core Intel® Atom™ E3826

Quad-Core Intel® Atom™ E3845

Number of cores	2/2	4/4
On-chip cache	1MB	2MB
Max operating frequency (GHz)	1.46	1.91
Graphics Co-processor	Gen 7 (4 Execution Units)	Gen 7 (4 Execution Units)
Max display resolution	1920x1280	1920x1280
SDRAM Size	2GB	2GB
SDRAM Type/speed	DDR3L 1067 MT/s, on board	DDR3L 1333 MT/s

PHYSICAL

Form Factor/size	2.9" x 3.9" SBC	2.9" x 3.9" SBC
Typical Power (TPD watts)	7	10
Operating temp	Fanless ambient operating temperature: 0-40C (Wider range possible with a larger heatsink than provided with standard boards)	Ambient operating temperature: 0-40C (Wider range possible with a larger heatsink/fan combo than provided with standard boards)
Heatsink/fan	78/55	78/55
EMC Certification	FCC Part 15 Class B, CE Class B, IEC-60950, RoHS/WEEE (as of 2017)	FCC Part 15 Class B, CE Class B, IEC-60950, RoHS/WEEE

ON-BOARD STORAGE

SPI Flash/Boot ROM	8MB SPI Flash	8MB SPI Flash
eMMC	none	none

STORAGE

SATA	1 port	1 port
mSATA	via optional add-on board	via optional add-on board
MicroSD	1	1
M.2	none (mPCIe and mSATA via optional add-on board)	none (mPCIe and mSATA via optional add-on board)

I/O PORTS

USB	1x USB2.0 1x USB3.0	1x USB2.0 1x USB3.0
Display	microHDMI port	microHDMI port
Camera	N/A	N/A
Audio	Windows digital via HDMI	Digital HDMI
Ethernet	1 x 1Gb Ethernet RJ45	1 x 1Gb Ethernet RJ45
Serial	UART pins	UART pins

EXPANSION

Low speed	Low speed expansion (LSE) v1 header	Low speed expansion (LSE) v1 header
High speed	High speed expansion (HSE) connector with additional mPCIe, mSATA, USB	High speed expansion (HSE) connector with additional mPCIe, SATA, USB

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