

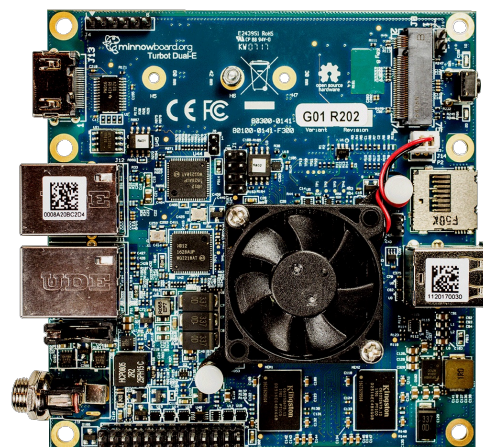
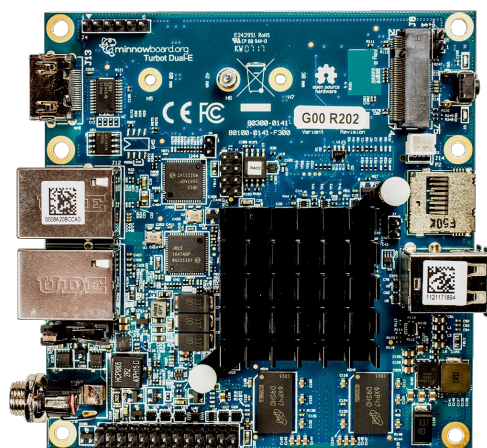
Technical Specs

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October 11, 2017

MinnowBoard Turbot Dual Ethernet Dual-Core

MinnowBoard Turbot Dual Ethernet 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	1 MB	2 MB
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	DDR3L 1067 MT/s

Physical

Form Factor/size	3.8" x 3.9" SBC	3.8" 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)	Fan cooled ambient operating temperature: 0-40C (Wider range possible with a larger heatsink than provided with standard boards)
Heatsink/fan	N/A	N/A
EMC Certification	FCC Part 15 Class B, CE Class B, IEC-60950, RoHS/WEEE (pending)	FCC Part 15 Class B, CE Class B, IEC-60950, RoHS/WEEE (pending)

On-board storage

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

Storage

SATA	none	none
mSATA	via optional add-on board	via optional add-on board
MicroSD	1	1
M.2	M.2 B slot 25/35/60	M.2 B slot 25/35/60

I/O ports

USB	USB 2.0 and USB 3.1	USB 2.0 and USB 3.1
Display	Full-size HDMI port	Full-size HDMI port
Camera	n/a	n/a
Audio	HDMI Digital audio, I2S	HDMI Digital audio, I2S
Ethernet	2x Intel i211 with RJ-45 Gigabit Ethernet Jacks	2x Intel i210 with RJ-45 Gigabit Ethernet Jacks
Serial	N/A	FTDI compatible UART header pins

Expansion

Low speed	Low speed expansion (LSE) v1 header	Low speed expansion (LSE) v1 header
High speed	High speed expansion (HSE) connector	High speed expansion (HSE) connector