

Section	Test #	Test Results	Failed DUT(s)	Failure Description	Issue #	Notes
Display Driver	01.01.01	pass				
Functional Tests	01.01.02	pass				
	01.01.03	fail		Display in HDMI mode is not supported in v1.0 release.	DM3730ANDROID-408	
	01.01.04	pass				
	01.01.05	pass				
	01.01.06	pass				
	01.01.07	pass				
	01.01.08	pass				
	01.02.01	pass				
	01.02.02	pass				
Audio Output	02.01.01	pass				
Tests	02.01.02	pass				
	02.01.03	pass				
Wired Ethernet Tests	03.01.01	fail	all	Ethernet hot-plug capability is not supported in v1.0 release.	DM3730ANDROID-427	If you do "setenv otherbootargs ip=:::::dhcp" in U-Boot, it works.
	03.01.02	pass				
	03.01.03	fail	all	Removing Ethernet cable causes boot to take longer on some boards.	DM3730ANDROID-325	
	03.01.04	concern	all	Ethernet hot-plug capability is not supported in v1.0 release.	DM3730ANDROID-427	Technically passes, but since the board does not boot with DHCP by default, it really does not mean anything. If you boot with DHCP and pull the Ethernet cable, it takes 6 extra minutes.
	03.01.05	pass				
	03.01.06	pass				
	03.01.07	pass				
	03.01.08	pass				
	03.01.09	pass				
	03.01.10	pass				Can put ethtool into /system/bin and use it when you SD boot.
	03.02.01	pass				
USB Host Tests	04.01.01	pass				
	04.01.02	pass				
	04.02.01	pass				
	04.02.02	blocked				Need cable.
Serial Tests	05.01.01	pass				
	05.01.03	pass				
	05.02.01	pass				
	05.02.02	pass				
	05.02.03	pass				
	05.02.04	pass				
	05.02.05	pass				
	05.02.06	pass				
	05.03.01	pass				
MMC/SD Tests	06.01.01	pass				
	06.01.02	pass				
	06.01.03	pass				
	06.01.06	blocked				No SDIO card.
	06.01.07	pass				
	06.01.08	pass				
	06.01.09	pass				
	06.02.01	pass				
	06.03.01	pass				
Touch Screen	08.01.01	pass				
Tests	08.01.02	pass				
	08.01.03	pass				
	08.01.04	na				Touch has changed; test no longer valid.
	08.01.05	pass				
	08.01.06	pass				
	08.01.07	pass				

Section	Test #	Test Results	Failed DUT(s)	Failure Description	Issue #	Notes
SPI Tests	09.01.01	blocked	all		DM3730ANDROID-32	SPI-test command is missing.
	09.01.02	blocked	all		DM3730ANDROID-32	SPI-test command is missing.
MTD File	10.02.01	pass				
System Tests	10.02.02	pass				
	10.02.03	pass				
	10.02.04	pass				
	10.03.01	pass				
Power	11.01.01	pass				
Management	11.01.02	pass				
Tests	11.01.03	pass				
	11.02.01	pass				
	11.03.01	pass				
	11.03.02	fail partial	inconsistent	SmartReflex power management feature is on by default. Turning SmartReflex off may fail occasionally.	DM3730ANDROID-380	
Wireless	12.01.01	fail	All T+W	Wi-Fi and Bluetooth are not supported on DM3730 SOM-LVs in v1.0 release.	DM3730ANDROID-320	
	also	fail	All T+W	Wi-Fi MAC address is not listed on Wi-Fi advanced settings section of graphic user interface. Wi-Fi MAC address can be retrieved through "netcfg" command.	DM3730ANDROID-435	
Ethernet	12.01.02	pass				
Tests	12.01.03	pass				
	12.01.04	fail	All T+W	Ice Cream Sandwich (ICS): Cannot set static IP address from the GUI.	DM3730ANDROID-431	
	12.01.05	pass				
	12.01.06	concern	All T+W	When watching video online via Ethernet or Wi-Fi, videos get choppy and eventually audio gets choppy.	DM3730ANDROID-357	
	12.02.01	pass				
Bluetooth Tests	13.04.02	concern	All T+W	Cannot send a picture file from SOM through Bluetooth. Can send contact data successfully through Bluetooth.	DM3730ANDROID-418	We are able to send contact information.
	13.04.03	pass				
	13.06.01	fail	All T+W	Bluetooth does not work after system resumes from suspend mode.	DM3730ANDROID-315	
USB OTG Tests	15.01.01	pass				
	15.01.02	pass				
	15.01.03	pass				
	15.02.01	na				Will be tested later with user guide.
	15.02.02	blocked				Need cable.
	15.02.03	na				Will be tested later with user guide.
General Tests	16.01.01	pass				
	16.01.02	pass				
	16.01.03	pass				
	16.01.04	pass				
	16.01.05	pass				
	16.01.06	pass				
	16.01.07	pass				
	16.01.08	pass				NOTE: The -31 does not have the ID information programmed (this matches the sticker on the SOM).
	16.02.01	pass				
	16.02.02	pass				
	16.03.01	fail partial		Power-off button sometimes does not complete power-off cycle.	DM3730ANDROID-422	
	16.03.02	pass				
	16.03.03	pass				
	16.04.01	fail partial		AM3703-based SOMs are not supported in v1.0 release.	DM3730ANDROID-434	
	16.05.01	pass				
	16.05.02	pass				
	16.06.01	na				Will be tested later with user guide.
	16.07.01	pass				
	16.08.01	pass				

Section	Test #	Test Results	Failed DUT(s)	Failure Description	Issue #	Notes
GPS	17.01.01	fail		GPS functionality is not supported in v1.0 release.	DM3730ANDROID-421	
	17.02.01	fail		GPS functionality is not supported in v1.0 release.	DM3730ANDROID-421	
FCC bts & ini files	18.01.01	pass				
	18.02.01	fail		Wi-Fi MAC address is not listed on Wi-Fi advanced settings section of graphic user interface. Wi-Fi MAC address can be retrieved through "netcfg" command.	DM3730ANDROID-435	MAC address not shown.
	18.02.02	pass				
Performance	21.02.01	fail		System cold start time is over 1 minute.	DM3730ANDROID-436	
Tests	21.02.02	concern				Probably slightly more than 2 seconds; hard to time.
	21.02.03	pass				
	21.03.01	concern		The test unit's total power consumption (SOM + baseboard) is over the expected 30 mW noted in the SRS.	DM3730ANDROID-346	
	21.04.01	pass				
	21.04.02	pass				
	21.04.03	pass				
	21.05.02	pass				

Other Jira Issues:

Total Pass:	115	TOTAL Number of Tests		
87	87	Pass		76%
78%	0	Pass R/L		0%
	5	Concern		4%
	11	Fail		10%
	3	fail partial		3%
	5	Blocked		4%
Done	4	na		3%
115	0	To Do		0%
	115			
	115	# Complete %		100%
	0	# To Go %		0%

DM3730 Torpedo + Wireless SOM (PN 1021711)

		netperf on SOM in 10^6 bits/sec	netperf on Linux Box in 10^6 bits/sec
03.01.10	10BASE-T	7.17	4.83
	100BASE-T	82.1	34.07
		netperf on SOM in 10^6 bits/sec	netperf on Linux Box in 10^6 bits/sec
12.01.01	A	11.39	10.51
	B	4.88	4.84
	G	12.31	10.36
	N (2.4 GHz)	20.72	12.5
	N (5 GHz)	19.47	9.61

A - DUT in transmit mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.116 W</b>	705.0 mW	1.782 W	1.281 W
1: SOM: Main battery	<b>947.4 mW</b>	554.3 mW	1.587 W	1.111 W
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

A - DUT in receive mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>847.5 mW</b>	727.5 mW	1.251 W	882.3 mW
1: SOM: Main battery	<b>840.7 mW</b>	564.2 mW	1.009 W	712.7 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

B - DUT in transmit mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.639 W</b>	693.0 mW	1.960 W	1.229 W
1: SOM: Main battery	<b>1.512 W</b>	532.0 mW	1.745 W	1.097 W
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

B - DUT in receive mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>781.5 mW</b>	693.0 mW	1.544 W	873.4 mW
1: SOM: Main battery	<b>750.2 mW</b>	532.0 mW	1.400 W	707.5 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>1.6 mW</b>	1.6 mW	3.6 mW	2.5 mW

G - DUT in transmit mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.077 W</b>	669.0 mW	1.702 W	937.9 mW
1: SOM: Main battery	<b>808.5 mW</b>	461.3 mW	1.463 W	761.0 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

G - DUT in receive mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>738.0 mW</b>	634.5 mW	1.526 W	843.9 mW
1: SOM: Main battery	<b>662.2 mW</b>	532.0 mW	1.043 W	671.5 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>1.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

N (2.4GHz) - DUT in transmit mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.125 W</b>	693.0 mW	1.578 W	1.045 W
1: SOM: Main battery	<b>1.164 W</b>	528.2 mW	1.314 W	871.6 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

N (2.4GHz)- DUT in receive mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.113 W</b>	435.0 mW	1.244 W	822.2 mW
1: SOM: Main battery	<b>770.0 mW</b>	266.6 mW	1.047 W	645.9 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

N (5GHz) - DUT in transmit mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.337 W</b>	708.0 mW	1.978 W	1.303 W
1: SOM: Main battery	<b>1.349 W</b>	564.2 mW	1.712 W	1.143 W
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

N (5GHz)- DUT in receive mode:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>826.5 mW</b>	730.5 mW	1.312 W	875.5 mW
1: SOM: Main battery	<b>732.8 mW</b>	559.2 mW	1.069 W	699.2 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	2.6 mW	2.6 mW

21.02.01 Cold boot to desktop time

SD card boot time= 1 minute 18 seconds  
NAND boot time= 1 minute 7 seconds

21.02.02 Cold boot to splash screen time

SD card boot time= about 2 seconds  
NAND boot time= about 2 seconds

21.02.03 Run to Suspend

Interface turned off immediate  
Suspend state finalized = ~ 1.5 second



DM3730 Torpedo + Wireless SOM (PN 1021711)

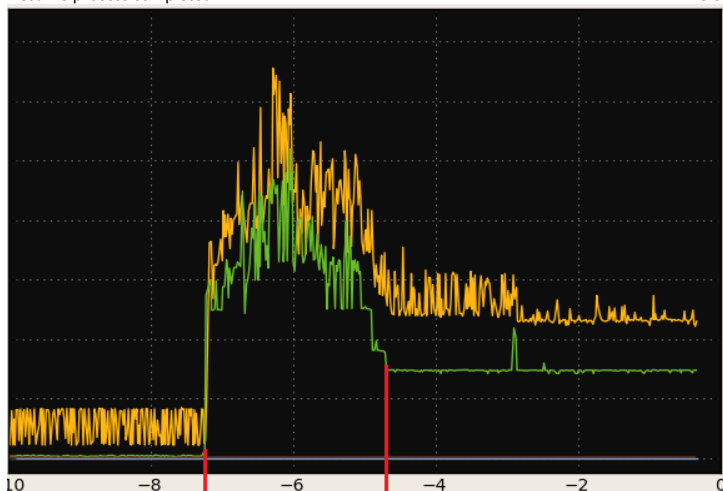
Suspend to Run

Interface turned on =

< 1 second

Resume process completed =

~ 2.5 seconds



21.03.01

Normal running state at the home screen:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>501.0 mW</b>	376.5 mW	580.5 mW	470.2 mW
1: SOM: Main battery	<b>296.4 mW</b>	284.0 mW	420.4 mW	294.7 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.6 mW	3.6 mW	2.6 mW

21.03.01

Suspend state, using S2:

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>165.0 mW</b>	42.0 mW	169.5 mW	113.6 mW
1: SOM: Main battery	<b>8.7 mW</b>	2.5 mW	9.9 mW	7.2 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>1.6 mW</b>	1.0 mW	3.6 mW	2.1 mW

21.04.01 SD read / write time

RAM to card

1.75s real

0.0s real

0.34s system

Card to RAM

1.37s real

0.0s user

0.3s system

21.04.02 NAND read / write time

RAM to NAND

3.47s real

0.0s user

1.75s system

NAND to RAM

3.25s real

0.02s user

1.21s system

21.04.03 RAM read / write time

RAM to RAM

1.55s real

0.01s user

0.29s system

DM3730 Torpedo + Wireless SOM (PN 1021711)

21.05.02

10BASE-T				
Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.170 W</b>	1.131 W	1.521 W	1.190 W
1: SOM: Main battery	<b>311.2 mW</b>	288.9 mW	611.3 mW	334.0 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	2.6 mW	3.6 mW	2.7 mW

9.41 10^6bits/sec

100BASE-T				
Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.416 W</b>	1.293 W	1.790 W	1.485 W
1: SOM: Main battery	<b>643.6 mW</b>	528.2 mW	944.9 mW	709.8 mW
2: SOM: Backup battery	<b>0.0 mW</b>	0.0 mW	0.1 mW	0.0 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	2.6 mW	4.2 mW	3.0 mW

89.14 10^6bits/sec

DM3730 Torpedo SOM (PN 1017878)

		netperf on SOM in 10^6 bits/sec	netperf on Linux Box in 10^6 bits/sec
03.01.10	10BASE-T	6.85	4.82
	100BASE-T	79.84	48.37
		netperf on SOM in 10^6 bits/sec	netperf on Linux Box in 10^6 bits/sec
12.01.01	A	no wireless	no wireless
	B	no wireless	no wireless
	G	no wireless	no wireless
	N	no wireless	no wireless
A - DUT in transmit mode:		no wireless	no wireless
A - DUT in receive mode:		no wireless	no wireless
B - DUT in transmit mode:		no wireless	no wireless
B - DUT in receive mode:		no wireless	no wireless
G - DUT in transmit mode:		no wireless	no wireless
G - DUT in receive mode:		no wireless	no wireless
N - DUT in transmit mode:		no wireless	no wireless
N - DUT in receive mode:		no wireless	no wireless
N - DUT in transmit mode:		no wireless	no wireless
N - DUT in receive mode:		no wireless	no wireless
21.02.01	Cold boot to desktop time		
	SD card boot time=	1 minute 19 seconds	
	NAND boot time=	1 minute 8 seconds	
21.02.02	Cold boot to splash screen time		
	SD card boot time=	about 2 seconds	
	NAND boot time=	about 2 seconds	
21.02.03	Run to Suspend		
	Interface turned off	immediate	
	Suspend state finalized =	~ 1 second	





Suspend to Run

Interface turned on =

Resume process completed =

< 1 second

~ 3 seconds



21.03.01

Normal running state at the home screen

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>823.5 mW</b>	481.5 mW	870.0 mW	700.8 mW
1: SOM: Main battery	<b>264.1 mW</b>	250.5 mW	295.1 mW	262.0 mW
2: SOM: Backup battery	<b>0.1 mW</b>	0.0 mW	0.1 mW	0.1 mW
5: Baseboard: 1.8V	<b>1.6 mW</b>	1.0 mW	2.6 mW	1.6 mW

21.03.01

Suspend state, using S2

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>43.5 mW</b>	37.5 mW	192.0 mW	86.9 mW
1: SOM: Main battery	<b>8.7 mW</b>	6.2 mW	13.6 mW	9.2 mW
2: SOM: Backup battery	<b>0.1 mW</b>	0.0 mW	0.1 mW	0.1 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	0.0 mW	4.2 mW	1.5 mW

21.04.01

SD read / write time

RAM to card

1.85s real

0.0s user

0.34s system

Card to RAM

1.37s real

0.01 user

0.29s system

21.04.02

NAND read / write time

RAM to NAND

3.39s real

0.0s user

1.66s system

NAND to RAM

3.64s real

0.0s user

1.24s system

21.04.03

NAND read / write time

RAM to RAM

0.30s real

0.0s user

0.29s system

DM3730 Torpedo SOM (PN 1017878)

21.05.02

10BASE-T

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.349 W</b>	1.290 W	1.784 W	1.448 W
1: SOM: Main battery	<b>333.6 mW</b>	282.7 mW	642.3 mW	345.5 mW
2: SOM: Backup battery	<b>0.1 mW</b>	0.1 mW	0.1 mW	0.1 mW
5: Baseboard: 1.8V	<b>1.6 mW</b>	1.0 mW	2.6 mW	1.8 mW

9.41 10^6bits/sec

100BASE-T

Monitors	Value	Min	Max	Average
0: Kit: Main battery	<b>1.590 W</b>	1.566 W	2.233 W	1.883 W
1: SOM: Main battery	<b>646.0 mW</b>	643.6 mW	1.143 W	871.5 mW
2: SOM: Backup battery	<b>0.1 mW</b>	0.1 mW	0.1 mW	0.1 mW
5: Baseboard: 1.8V	<b>2.6 mW</b>	1.0 mW	2.6 mW	2.0 mW

81.16 10^6bits/sec

DM3730 SOM-LV (PN 1017318)

		netperf on SOM in 10^6 bits/sec	netperf on Linux Box in 10^6 bits/sec
03.01.10	10BASE-T	6.85	4.88
	100BASE-T	82.51	25.9
		netperf on SOM in 10^6 bits/sec	netperf on Linux Box in 10^6 bits/sec
12.01.01	A	no wireless on SOM-LV	no wireless on SOM-LV
	B	no wireless on SOM-LV	no wireless on SOM-LV
	G	no wireless on SOM-LV	no wireless on SOM-LV
	N	no wireless on SOM-LV	no wireless on SOM-LV
A - DUT in transmit mode:		no wireless	no wireless
A - DUT in receive mode:		no wireless	no wireless
B - DUT in transmit mode:		no wireless	no wireless
B - DUT in receive mode:		no wireless	no wireless
G - DUT in transmit mode:		no wireless	no wireless
G - DUT in receive mode:		no wireless	no wireless
N - DUT in transmit mode:		no wireless	no wireless
N - DUT in receive mode:		no wireless	no wireless
N - DUT in transmit mode:		no wireless	no wireless
N - DUT in receive mode:		no wireless	no wireless
21.02.01	Cold boot to desktop time		
	SD card boot time=	1 minute 19 seconds	
	NAND boot time=	1 minute 5 seconds	
21.02.02	Cold boot to splash screen time		
	SD card boot time=	about 2 seconds	
	NAND boot time=	about 2 seconds	
21.02.03	Run to Suspend		
	Interface turned off	immediate	
	Suspend state finalized =	~ 1 second	



DM3730 SOM-LV (PN 1017318)

Suspend to Run

Interface turned on =

Resume process completed =

< 1 second

~ 2.5 seconds



21.03.01

Normal running state at the home screen:

Monitors	Value	Min	Max	Average
0: Kit	<b>1.002 W</b>	885.0 mW	1.233 W	1.004 W
1: SOM: Main battery	<b>280.2 mW</b>	272.8 mW	569.2 mW	281.3 mW
2: SOM: Backup battery	<b>0.1 mW</b>	0.0 mW	0.1 mW	0.1 mW
3: SOM: 3.3V	<b>16.1 mW</b>	13.6 mW	18.6 mW	15.7 mW
4: SOM: 5V	<b>0.0 mW</b>	0.0 mW	0.0 mW	0.0 mW

21.03.01

Suspend state, using S2:

Monitors	Value	Min	Max	Average
0: Kit	<b>177.0 mW</b>	174.0 mW	184.5 mW	179.7 mW
1: SOM: Main battery	<b>12.4 mW</b>	6.2 mW	16.1 mW	11.6 mW
2: SOM: Backup battery	<b>0.1 mW</b>	0.0 mW	0.1 mW	0.1 mW
3: SOM: 3.3V	<b>18.6 mW</b>	13.6 mW	18.6 mW	15.9 mW
4: SOM: 5V	<b>0.0 mW</b>	0.0 mW	0.0 mW	0.0 mW

21.04.01

SD read / write time

RAM to card

1.86s real

0.0s user

0.34s system

Card to RAM

1.28s real

0.0s user

0.3s sytem

21.04.02

NAND read / write time

RAM to NAND

3.39s real

0.0s user

1.64s system

NAND to RAM

2.83s real

0.0s user

1.22s system

21.04.03

RAM read / write time

RAM to RAM

1.83s real

0.0s user

0.28s system

DM3730 SOM-LV (PN 1017318)

21.05.02

10BASE-T

Monitors	Value	Min	Max	Average
0: Kit	<b>1.978 W</b>	1.831 W	2.422 W	1.986 W
1: SOM: Main battery	<b>282.7 mW</b>	277.8 mW	541.9 mW	319.4 mW
2: SOM: Backup battery	<b>0.1 mW</b>	0.1 mW	0.1 mW	0.1 mW
3: SOM: 3.3V	<b>267.8 mW</b>	264.1 mW	267.8 mW	266.4 mW
4: SOM: 5V	<b>0.0 mW</b>	0.0 mW	0.0 mW	0.0 mW

9.41 10^6bits/sec

100BASE-T

Monitors	Value	Min	Max	Average
0: Kit	<b>2.179 W</b>	2.047 W	2.814 W	2.405 W
1: SOM: Main battery	<b>479.9 mW</b>	479.9 mW	901.5 mW	672.8 mW
2: SOM: Backup battery	<b>0.1 mW</b>	0.1 mW	0.1 mW	0.1 mW
3: SOM: 3.3V	<b>381.9 mW</b>	379.4 mW	390.6 mW	388.2 mW
4: SOM: 5V	<b>0.0 mW</b>	0.0 mW	0.0 mW	0.0 mW

89.62 10^6bits/sec