Open Hardware DSP Platform – www.ohdsp.org CoreOne-xCORE200-2.1 Bill of Materials 04 April 2019

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Reference C101 C103 C105 C307 C309 C311 C506 C614 C703 C842 C102 C104 C106 C201 C203 C205 C209 C211 C212 C214 C219			Description						
	Quantity Footprint	Value	Description		Tolerance		_	Power	·
1117 L 1117 C 1116 C 2011 C 2012 C 2016 C 2010 C 2011 C 2017 C 2017 C 2010	10 SMD-0805	10u	'Ceramic capacitor	'0805	20%	'X5R	'10V	<u> </u>	<u> </u>
									1
223 C224 C301 C304 C305 C308 C310 C312 C313 C404 C502									1
C505 C507 C603 C604 C605 C608 C610 C611 C704 C841	32 SMD-0805	100n	Ceramic capacitor	'0805	10%	'X7R	'50V		
C107 C215 C401 C402 C405 C406 C701 C702 C705 C706 C707	11 SMD-0805	10n	Ceramic capacitor	'0805	'10%	'X7R	'50V		ľ
202 C221	2 CAP-TH-D6.3mmP2.5mm	220u	'Aluminium electrolytic capacitor		•	2.5mm pitch, 6.3mm diameter	'16V		
2206	1 SMD-0805	39p	'Ceramic capacitor	'0805	11006	'X7R	'50V		
2207 C208 C217 C218 C303 C504 C607 C801 C807 C811 C814 C825		22u	Ceramic capacitor	'0805	20%	'X5R	'10V		
210 C220 C302 C503 C606 C810	6 CAP-TH-D6.3mmP2.5mm	220u	Low impedance aluminium electrolytic capacitor - Panasonic FC, FR or similar		<u> </u>	'2.5mm pitch, 6.3mm diameter	'10V	· '	
2216	1 SMD-0805	N/F	Ceramic capacitor	'0805	10%	'X7R	'50V	· .	()
204 C213 C222	3 SMD-0805	22u	'Ceramic capacitor	'0805	'20%	'X5R	'25V		
2225 C306 C508 C609 C828	5 SMD-0805	100p	'Ceramic capacitor	'0805		'C0G	'50V		
403	1 SMD-0805	2u2	Ceramic capacitor	'0805		'X5R	'50V		
509 C510 C612 C613	4 SMD-0805	33p	Ceramic capacitor	'0805		'NP0	'50V	· '	
:601 C602	2 SMD-0805	1u	Ceramic capacitor	'0805	'10%	'X7R	'10V	l .	(
802 C803 C804 C805 C806	5 SMD-0603	1u	'Ceramic capacitor	'0603	'10%	'X7R	'10V		
808 C812 C816 C817 C818 C819 C820 C821 C822 C823 C824									
826 C829 C830 C831 C832 C833 C834	18 SMD-0603	100n	Coromic conneitor	'0603	11004	'X7R	'50V	. .	į.
			Ceramic capacitor						
809 C813 C827 C835 C836 C837 C838 C839 C840	9 SMD-0603	10n	Ceramic capacitor	'0603	10%	'X7R	'50V	· ·	
N301 CN302 CN501	3 CONN_SIL_2_1MM	COAX	12x2 2.54mm pitch pin header - use with 75Ohm coax	l'	'	<u> </u>	ľ	l. I.	(
N401	1 CONN-USB-B-61729-0010	CONN-USB-B-617	29 USB B Connector - Amphenol 61729 Series - eg: 61729-0010	· ·	•	•			
N601	1 CONN-RJ45-ARJC02-111xxxx	ARJC02-111009D	'ARCJ02 series RJ45 connector with LED - ARJC02-111009D	-					
201 D202 D601	3 DIODE-SOD-123	1N4148W-7-F	Text description						
203	1 DIODE-SMA	B240A	B240A 2A 40V Schottky Rectifier - SMA (DO-214AC)	'				'	
204	1 SMD-1206	Green LED 1206	Green LED - SMD - Vf 1.8V to 2.2V	1206	•	•	·		i
401 D402 D403 D404 D405 D406 D407 D408	8 IC-SOT23	BAV99	'100V 150mA Small Signal Switching Diode, Dual in Series		•	•			
P301	1 CONN SIL 3 1MM	CONN 3x1	'1x3 2.54mm pitch pin header				·		
									12.74
01	1 IND-TH-DR0608	DR0608-153L	Coilcraft DR0608-153L DCR=0.052Ohm Isat=2.7A Irms=2.7A						'2.7A
202	1 IND-TH-DR0608	DR0608-332L	Coilcraft DR0608-332L DCR=0.012Ohm Isat=5.3A Irms=5.0A	ľ	<u> </u>		<u> </u>	[]	'5.3A
03	1 SMD-0805	600R@100MHz	Ferrite bead, current rating 2A or higher, 600R@100MHz	'0805	·	•	·	· -	'=>2A
801 L501 L601 L801	4 SMD-0805	600R@100MHz	Ferrite bead, current rating 1A or higher, 600R@100MHz	'0805	•				'=>1A
P801 JP802 JP803 JP804 P201 P701		CONN 2x1		1		•			
	6 CONN_SIL_2_1MM		'1x2 2.54mm pitch pin header						
02	1 CONN-2WAY-2.54mm-3.81mm-SPAC		2 way screw terminal, any 2.54mm to 3.81mm pitch part	·					<u> </u>
101 P404	2 CONN_DIL_2X6_BOX_1MM	CONN_02X06	2x6 2.54mm pitch box header	<u>'</u>	<u>'</u>	•	<u>'</u>	' '	
02 P403	2 CONN DIL 2X5 BOX 1MM	CONN 02X05	2x5 2.54mm pitch box header	'	·	•	.		ľ
105	1 CONN DIL 2X10 BOX 1MM	CONN 02X10	2x10 2.54mm pitch box header			•			•
106 P408	2 CONN_DIL_2X04	CONN 02X04	2x4 2.54mm pitch pin header			•			
107 P409	2 CONN_DIL_2X4_BOX_1MM	CONN_02X04	'2x4 2.54mm pitch box header	ı'			ľ		
101 R401 R402 R403 R404 R405 R406 R407 R408 R409 R410									1
426 R428 R803 R804 R805 R806 R807 R808 R809 R810 R814									1
817 R818 R824 R825	26 SMD-0805	0	Thick or thin film resistor	'0805	'1%	•	·	'100mW	(
102 R103 R104 R105 R106 R107 R604 R605 R606 R607 R608									
611 R612 R811 R815 R816 R819 R820 R821 R826 R827 R828									
829 R830 R831 R832 R833 R836	28 SMD-0805	33	'Thick or thin film resistor	'0805	1106		.	'100mW '	
201 R202 R206	3 SMD-0805	100k	Thick or thin film resistor	'0805				'100mW '	<u>i</u>
			Thick or thin film resistor	'0805	'1%		ľ	'100mW	
203	1 SMD-0805	22k			110%	•	·	'100mW '	i .
			Thick or thin film resistor	'0805	170				
204	1 SMD-0805	75k	Thick or thin film resistor Thick or thin film resistor	'0805		•		'100mW '	
204 205 R301 R303 R308 R421 R626 R802	1 SMD-0805 7 SMD-0805	75k 10k	'Thick or thin film resistor	'0805	'1%		'	'100mW '	
204 20 <mark>5 R301 R303 R308 R421 R626 R802</mark> 207 R704	1 SMD-0805 7 SMD-0805 2 SMD-0805	75k 10k 15k	Thick or thin film resistor Thick or thin film resistor	'0805 '0805	<mark>'1%</mark> '1%		'	'100mW '	
204 20 <mark>5 R301 R303 R308 R421 R626 R802</mark> 207 R704	1 SMD-0805 7 SMD-0805	75k 10k	Thick or thin film resistor Thick or thin film resistor Thick or thin film resistor	'0805	<mark>'1%</mark> '1%	1	'		,
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603	1 SMD-0805 7 SMD-0805 2 SMD-0805	75k 10k 15k	Thick or thin film resistor Thick or thin film resistor	'0805 '0805	'1% '1% '1%	1	· · · · · · · · · · · · · · · · · · ·	'100mW '	,
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805	75k 10k 15k 220 10	Thick or thin film resistor	'0805 '0805 '0805 '0805	'1% '1% '1% '1%	•	1	'100mW ' '100mW '	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805	75k 10k 15k 220 10 47	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805	'1% '1% '1% '1% '1%	1 1 1	•	'100mW ' '100mW ' '100mW '	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 804 R702 R703 R705	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 4 SMD-0805	75k 10k 15k 220 10 47 100	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805	'1% '1% '1% '1% '1% '1% '1%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 - - - -	'100mW ' '100mW ' '100mW ' '100mW ' '100mW '	•
203 204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 304 R702 R703 R705 305 R306 R307 R309 R310	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 4 SMD-0805 5 SMD-0805 5 SMD-0805	75k 10k 15k 220 10 47 100 75	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805	'1% '1% '1% '1% '1% '1% '1% '1% '1%		 - - - - -	'100mW ' '100mW ' '100mW ' '100mW ' '100mW ' '100mW '	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 304 R702 R703 R705 305 R306 R307 R309 R310	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 4 SMD-0805 5 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 1000 75 360	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	1% '1% '196 '196 '196 '196 '196 '196 '196 '196	1		'100mW '	1
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 304 R702 R703 R705 305 R306 R307 R309 R310	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 4 SMD-0805 5 SMD-0805 5 SMD-0805	75k 10k 15k 220 10 47 100 75	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805	1% '1% '196 '196 '196 '196 '196 '196 '196 '196			'100mW ' '100mW ' '100mW ' '100mW ' '100mW ' '100mW '	1
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 304 R702 R703 R705 305 R306 R307 R309 R310 311	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 4 SMD-0805 5 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 1000 75 360	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	1% '1% '196 '196 '196 '196 '196 '196 '196 '196			'100mW '	1
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 304 R702 R703 R705 305 R306 R307 R309 R310 311 312 411 R412 R413 R414 R415 R416 R417 R418 R419 R420 R502	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 5 SMD-0805 4 SMD-0805 5 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	'1% '1% '1% '1% '1% '1% '1% '1% '1% '1%			'100mW '	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 304 R702 R703 R705 305 R306 R307 R309 R310 311 312 311 R412 R413 R414 R415 R416 R417 R418 R419 R420 R502 506 R507 R613 R614 R615 R623 R624 R625 R834 R835	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 5 SMD-0805 5 SMD-0805 1 SMD-0805 1 SMD-0805 22 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	1% '1% '1% '1% '1% '1% '1% '1% '1% '1% '			100mW 100mW	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 204 R702 R703 R705 205 R306 R307 R309 R310 201 201 202 R306 R307 R309 R310 203 R306 R307 R309 R310 204 R702 R703 R705 205 R306 R307 R309 R310 205 R306 R307 R309 R310 206 R507 R613 R614 R615 R623 R624 R625 R834 R835 205 R306 R307 R613 R614 R615 R623 R624 R625 R834 R835	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 5 SMD-0805 4 SMD-0805 5 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	1% '1% '1% '1% '1% '1% '1% '1% '1% '1% '			'100mW '	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 204 R702 R703 R705 205 R306 R307 R309 R310 201 R312 201 R312 R413 R414 R415 R416 R417 R418 R419 R420 R502 201 R312 R413 R614 R615 R623 R624 R625 R834 R835 202 202 R424 R425 R427 R429 R430 R431 R432 R510 R609 R610	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 4 SMD-0805 5 SMD-0805 1 SMD-0805 1 SMD-0805 2 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F 47k	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	'196 '196 '196 '196 '196 '196 '196 '196			100mW 1 100mW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 204 R702 R703 R705 205 R306 R307 R309 R310 2011 202 R306 R307 R309 R310 203 R306 R307 R309 R310 204 R306 R307 R309 R310 205 R306 R307 R309 R310 206 R307 R308 R308 R308 R318 R419 R420 R502 206 R307 R613 R614 R615 R623 R624 R625 R834 R835 205 R308 R309 R310 R311 R432 R510 R609 R610 205 R308 R309 R310 R311 R432 R510 R609 R610 205 R308 R309 R301 R308 R310 R310 R310 R320 R310 R310 R320 R310 R310 R310 R310 R310 R310 R310 R31	1 SMD-0805 7 SMD-0805 2 SMD-0805 2 SMD-0805 3 SMD-0805 5 SMD-0805 4 SMD-0805 4 SMD-0805 1 SMD-0805 1 SMD-0805 1 SMD-0805 1 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F 47k	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	11% 11% 11% 11% 11% 11% 11% 11% 11% 11%			100mW '	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 204 R702 R703 R705 205 R306 R307 R309 R310 2011 202 R306 R307 R309 R310 203 R306 R307 R309 R310 204 R306 R307 R309 R310 205 R306 R307 R309 R310 206 R307 R308 R308 R308 R318 R419 R420 R502 206 R307 R613 R614 R615 R623 R624 R625 R834 R835 205 R308 R309 R310 R311 R432 R510 R609 R610 205 R308 R309 R310 R311 R432 R510 R609 R610 205 R308 R309 R301 R308 R310 R310 R310 R320 R310 R310 R320 R310 R310 R310 R310 R310 R310 R310 R31	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 4 SMD-0805 5 SMD-0805 1 SMD-0805 1 SMD-0805 2 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F 47k	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	11% 11% 11% 11% 11% 11% 11% 11% 11% 11%			100mW 1 100mW	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 204 R702 R703 R705 205 R306 R307 R309 R310 211 211 R412 R413 R414 R415 R416 R417 R418 R419 R420 R502 206 R507 R613 R614 R615 R623 R624 R625 R834 R835 202 207 212 R424 R425 R427 R429 R430 R431 R432 R510 R609 R610 213 R620 R621 R622 R812 R813 R822 R823 208 R630 R504 R505	1 SMD-0805 7 SMD-0805 2 SMD-0805 2 SMD-0805 3 SMD-0805 5 SMD-0805 4 SMD-0805 4 SMD-0805 1 SMD-0805 1 SMD-0805 1 SMD-0805 1 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F 47k	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	11% 11% 11% 11% 11% 11% 11% 11% 11% 11%			100mW '	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 210 R302 R501 R601 R801 210 R302 R306 R307 R309 R310 211 R302 R306 R307 R309 R310 211 R412 R413 R414 R415 R416 R417 R418 R419 R420 R502 206 R507 R613 R614 R615 R623 R624 R625 R834 R835 212 213 R424 R425 R427 R429 R430 R431 R432 R510 R609 R610 215 R620 R621 R622 R812 R813 R822 R823 210 R504 R505	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 5 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F 47k 1k 33R 1Meg	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	'196 '196 '196 '196 '196 '196 '196 '196			100mW 100mW	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 210 R302 R501 R601 R801 210 R306 R307 R309 R310 211 212 R306 R307 R309 R310 213 R312 214 R312 R413 R414 R415 R416 R417 R418 R419 R420 R502 215 R306 R507 R613 R614 R615 R623 R624 R625 R834 R835 212 212 R424 R425 R427 R429 R430 R431 R432 R510 R609 R610 218 R620 R621 R622 R812 R813 R822 R823 219 R504 R505 210 R504 R505 210 R504 R505 210 R504 R505	1 SMD-0805 7 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 4 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F 47k 1k 33R 1Meg 0R	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	'196 '196 '196 '196 '196 '196 '196 '196			100mW 100mW	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 204 R702 R703 R705 205 R306 R307 R309 R310 201 R312 201 R312 R413 R414 R415 R416 R417 R418 R419 R420 R502 201 R305 R306 R307 R309 R310 201 R312 201 R312 R413 R414 R415 R416 R417 R418 R419 R420 R502 201 R314 R415 R615 R623 R624 R625 R834 R835 202 203 R324 R425 R427 R429 R430 R431 R432 R510 R609 R610 203 R304 R505 203 R504 R505 206 207 208 208 209 208 209 208 209 208 209 208 209 208 209 208 209 208 209 208 209 208 209 208 209 208 209 208 208 209 208 208 209 208 208 209 208 208 209 208 208 209 208 208 209 208 208 209 208 208 209 208 208 209 208 208 208 209 208 208 209 208 208 208 209 208 208 208 208 209 208 208 208 208 208 208 208 208 208 208	1 SMD-0805 7 SMD-0805 2 SMD-0805 2 SMD-0805 3 SMD-0805 2 SMD-0805 5 SMD-0805 4 SMD-0805 5 SMD-0805 1 SMD-0805 21 SMD-0805 22 SMD-0805 23 SMD-0805 24 SMD-0805 25 SMD-0805 25 SMD-0805 26 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F 47k 1k 33R 1Meg 0R 4k7	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	11% 11% 11% 11% 11% 11% 11% 11% 11% 11%			100mW 100mW	
204 205 R301 R303 R308 R421 R626 R802 207 R704 208 R602 R603 209 R211 210 R302 R501 R601 R801 204 R702 R703 R705 205 R306 R307 R309 R310 211 212 211 R412 R413 R414 R415 R416 R417 R418 R419 R420 R502 206 R507 R613 R614 R615 R623 R624 R625 R834 R835 212 212 R424 R425 R427 R429 R430 R431 R432 R510 R609 R610 218 R620 R621 R622 R812 R813 R822 R823 219 R504 R505 210 R616 R617 219 R617 R617 219 R617 R617	1 SMD-0805 7 SMD-0805 2 SMD-0805 2 SMD-0805 3 SMD-0805 5 SMD-0805 4 SMD-0805 5 SMD-0805 1 SMD-0805	75k 10k 15k 220 10 47 100 75 360 91 N/F 47k 1k 33R 1Meg 0R 4k7 6K49	Thick or thin film resistor	'0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805 '0805	11% 11% 11% 11% 11% 11% 11% 11% 11% 11%			100mW 100mW	
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