

uPAD and Backpack Related Items

Index	QTY	Description	Comment	Got it!
0	1	5V AC/DC adapter Label Supply label	Label to immediately apply to your AC/DC adapter	
1	1	uPAD 2.0	Xmega128A1U module	
2	1	uPAD Memory Base	parallel SRAM and SPI ROM LSA port for EBI and SPI	
3	1	uPAD switch and LED Backpack	dip switch tactile switches LEDs and a LSA port	
4	1	uPAD Analog Backpack	differential analog input +-5V, CDS cell analog input, speaker amplifier (Xmega DAC driven)	
5	1	uPAD Robotics Backpack	16-bit gyroscope (3-axis) 16-bit accelerometer (3-axis) both can communicate over SPI or I2C, dual motor driver, LSA port for SPI/I2C	
6	1	USB A male to B male cable		
7	4	1/2" 2x56 mounting screws	Used to connect the uPAD and memory base when the EBI board isn't connected	
8	4	7mm spacers #2 hole	goes between the uPAD and memory base and EBI breakout board	
9	4	5/8" 2-56 standoffs		
10	4	8-pin female headers		
11	1	Laser-cut speaker mount	fabricated by OOTB	
12	1	8Ω Speaker	cannot be substituted. PCB designed for this speaker	
13	1	DC Gearmotor		
14	1	6-pin screw terminal	used to connect a motor	
15	1	5V AC/DC adapter	required for analog backpack, and to drive motors	
16	1	8x DIP switch		
17	4	40-pin headers		
18	1	CdS Cell	cannot be substituted. PCB designed for this sensor	
19	4	M2x10mm screws	mounting the speaker	
20	4	M2 nuts	mounting the speaker	
21	1	Shunt	2-pin jumper (black)	

EBI Breakout Board and Related Items

Index	QTY	Description	Comment	Got it!
22	1	EBI Breakout Board	EBI signals broken out for use with a breadboard	
8	4	7mm spacers #2 hole	goes between the uPAD and memory base and EBI breakout board	
23	4	1" 2-56 mounting screws	used to connect the uPAD, memory base, and EBI breakout board together	
24	2	20-pin right angle headers	connects the EBI breakout board to a breadboard	
25	1	74HC573 8-bit 3-state transparent latch		
26	1	74HC574 8-bit 3-state D flip-flop		