



## BOM for Xbox 360 Traptanium Portal

Brand:	Activision
Product Name:	Traptanium Portal for Xbox 360
Model Number:	87031790



### Section 1.0 - Mechanical BOM

Part	Material
Light Pipe (10mm) - extruded	PMMA
Platform	CPC
Portal Body - Upper	CABS
Portal Body - Lower	CABS
Base Cover	ABS
Base Bottom	
Left Pillar	ABS
Right Pillar	ABS
Middle Pillar	ABS
Trap Holder	CABS
Speaker Box Cover	ABS
Speaker Box Bottom	
Pillar Bottom (qty 3)	ABS

### Section 2.0 - Electrical BOM

Electrical Part	Qty / Unit	Location
<b>MAIN PCBA</b>		
PCB size: 40mm X 53mm FR4 Thickness:1.2mm Double Gold plate PCB code :WIRE SOUND_PORTAL_VER:0V3 ROHS	1	
CAP0402, 1pF NPO +/-0.1pF 50V	1	C1
CAP0402, 2.5pF NPO +/-0.1pF 50V	1	C77
CAP0402, 5pF NPO +/-2% 50V	1	C76
CAP0402, 10pF NPO +/-2% 50V	2	C75, C42
CAP0402, 18pF NPO +/-2% 50V	2	C69, C70
CAP0402, 33pF NPO +/-5% 50V	4	C33, C34, C53, C63
CAP0402, 47pF NPO +/-5% 50V	2	C36, C39
CAP0402, 56pF NPO +/-2% 50V	2	C71, C72
CAP0402, 100pF NPO +/-2% 50V	2	C67, C68
CAP0402, 1nF X5R +/-10% 25V	5	C65, C66, C80, C86, C88
CAP0402, 0.1uF X5R +/-10% 10V	31	C2, C3, C4, C6, C7, C10, C12, C15, C18, C20, C22, C23, C24, C25, C28, C29, C31, C32, C38, C41, C43, C44, C45, C47, C52, C55, C56, C57, C64, C85, C87
CAP0603, 0.39uF X5R +/-10% 10V	1	C21
CAP0603, 0.47uF +/-10% 6.3V	2	C78, C89
CAP0603, 1uF +/-10% 6.3V	3	C16, C49, C50
CAP0603, 4.7uF +/-10% 6.3V	9	C5, C13, C14, C17, C26, C35, C46, C48, C91
CAP0805, 10uF +/-10% 10V	7	C8, C9, C11, C19, C30, C51, C90
Chip Resistor : 0R, 0402	3	R28, L2, L3
Chip Resistor : 0R, 0603	1	R3
Chip Resistor : 1R, 0805 +/-5%	1	R21
Chip Resistor : 3.9R, 0805 +/-1%	2	R5, R10
Chip Resistor : 4.7R, 0603 +/-5%	1	R12
Chip Resistor : 4.7R, 0805 +/-5%	1	R17
Chip Resistor : 100R, 0402 +/-5%	2	R24, R26
Chip Resistor : 100R, 0805 +/-5%	1	R37
Chip Resistor : 1K, 0402 +/-5%	2	R6, R7
Chip Resistor : 3.3K, 0402 +/-5%	2	R14, R15
Chip Resistor : 4.7K, 0402 +/-5%	1	R22
Chip Resistor : 10K, 0402 +/-5%	5	R8, R9, R11, R13, R16
Chip Resistor : 15K, 0402 +/-5%	2	R1, R2
Chip Resistor : 30K, 0402 +/-5%	1	R29
Chip Resistor : 49.9K, 0402 +/-1%	1	R18
Chip Resistor : 56K, 0402 +/-5%	1	R19
Chip Resistor : 100K, 0402 +/-5%	2	R31, R34
Chip Resistor : 200K, 0402 +/-1%	1	R4
INDUCTOR Bead CB1608-601(F) 600R +/-25% 300mA 0603 (邦诺)	1	L7

INDUCTOR Bead CB1608-102(f) 1K +/-25% 300mA 0603	5	L2, L5, L8, L9, L10
WL3225F1R0JTF 1uH +/-5%	2	L1, L6
USB ESD 0402ESDA-MLP1	2	D2, D3
2N7002K N-MOS SOT23	7	Q1, Q2, Q3, Q4, Q10, Q11, Q12
LN4890MM-MSOP8 AUDIO IC AMP	1	U1
ETA5050S2F SOT23-5 IC ADJ LDO	1	U4
MFR63001 QFN32 5X5 RFID Reager IC	1	U8
Microsoft XBOX360 Wired SECURITY CHIP SOP8 150mil "UABX808153-002"	1	U2
MP8132-DICE IC OTP MCU	1	U3
nSMD050 PPTC FUSE 1206 0.5A	1	F1
BAT54S Schottky diode SOT23-3	2	D8, D9
LED FHL-R3535UXW-2.8B White LED	1	D1
12MHz +/-20ppM Crystal 49S/SMD	1	Y2
27.12MHz +/-20ppM Crystal 49S/SMD	1	Y1
Portal RFID Antenna GN-Z120T (Wired Sound 2014 Portal)	1	Antenna
USB2.0 XBOX	1	JM1
BF4006SN-1308BR	1	SPK
(L=80mm)	2	SPK
BF4045SN05 40mm8R 0.25W	1	SPK
<b>RFID Trap ANT PCBA</b>		
PCB size: 29mm X 29mm FR4 Thickness:0.6mm Double Gold plate PCB code:RFID_TRAP_ANT-OV2 ROHS	1	
CAP0402, 47pF NPO +/-2% 50V	1	C1
CAP0402, 18pF NPO +/-2% 50V	1	C2
Chip Resistor : 10R, 0402 +/-5%	1	R1
<b>Left LED PCBA</b>		
PCB size: 10mm X 26.5mm CAM1 Thickness:0.8mm Single Gold plate PCB code : WIRE_SOUND_PORTAL_LED_BOARD VER:OV3 ROHS	1	
LED FHL-R3535SURGBW-2.8B	1	D4
Chip Resistor : 100R, 0805 +/-5%	2	R2, R3
Chip Resistor : 180R, 0805 +/-5%	1	R1
<b>Right LED PCBA</b>		
PCB size: 10mm X 26.5mm CAM1 Thickness:0.8mm Single Gold plate PCB code : WIRE_SOUND_PORTAL_LED_BOARD VER:OV3 ROHS	1	
LED FHL-R3535SURGBW-2.8B	1	D4
Chip Resistor : 100R, 0805 +/-5%	2	R2, R3
Chip Resistor : 180R, 0805 +/-5%	1	R1
<b>Miscellaneous Parts</b>		
Foam feet	4	
Rating sticker 31.5x29.5mm for the portals	1	
bar code label for portal	1	
Solder & Flux	1	

#### Section 3.0 - Labor (Paint)

Mechanical Part	Plastic	Molded Color	Deco Area	Deco Color	Qty
Pillar 1	NP-PVC	Dark Grey	Pillar	Grey	1
Pillar 2	NP-PVC	Dark Grey	Pillar	Grey	1
Pillar 3	NP-PVC	Dark Grey	Pillar	Grey	1
Crystal Housing	NP-PVC	Dark Grey	Pillar	Grey	1
Grate	NP-PVC	White	Grate	GOLD	1