

## SUB ASSEMBLY DESCRIPTION

# inventaire	Description	Version
FCBA-0007	Flex PCB Iris, Head Ass'y	6.0.1

\*For resistors and ceramic capacitors, any component equivalent or better than the specified source is acceptable.

QTY	HUMANWARE PART NUMBER	MANUFACTURER PART NUMBER	MANUFACTURER	DESCRIPTION	SUBSTITUTE AVAILABLE	VERSION
1	FCBB-0007			Flex PCB Iris, Head Bare		6.0.0
1	JSFA-0007	SM26B-SHLS-TF	JST	Connector, SMT, 26 pins, 1mm pitch, 1A, 50V		1.0.0
1	JSFP-0001	685119136923 HDMICF-IG0N01	Würth Electronics Antenk	Connector, SMT, HDMI / Displayport / DVI, 19 pin, Right Angle, Type C		1.0.0
1	JSMM-0001	2129261-1	Tyco Electronics (connectivity)	Connector, SMT, 40 pins, Docking, 0.6mm, High Speed		1.0.0

ISO-RD-EN0005

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PCB LOCATION
J3
J2
J4

## SUB ASSEMBLY DESCRIPTION

# inventaire	Description	Version
FCBA-0008	Flex PCB Iris, Head Leds Right Ass'y	2.0.0
*For resistors and ceramic capacitors, any component equivalent or better than the specified source is acceptable.		

QTY	HUMANWARE PART NUMBER	MANUFACTURER PART NUMBER	MANUFACTURER	DESCRIPTION	SUBSTITUTE AVAILABLE	VERSION
1	FCBB-0008			Flex PCB Iris, Head Leds Right Bare		2.0.0
5	PASD-0019	LXML-PWC2-1000RL	Future Electronics inc.	Cool White SMT LED, Rebel ES *** Binning Restrictions: A (flux bin) =B,C *** Binning Restrictions: B and C (color bin): W0		1.0.0

ISO-RD-EN0005

**PCB LOCATION**

D1, D2, D3, D4, D5

## SUB ASSEMBLY DESCRIPTION

# inventaire	Description	Version
FCBA-0009	Flex PCB Iris, Head Leds Left Ass'y	2.0.0

\*For resistors and ceramic capacitors, any component equivalent or better than the specified source is acceptable.

QTY	HUMANWARE PART NUMBER	MANUFACTURER PART NUMBER	MANUFACTURER	DESCRIPTION	SUBSTITUTE AVAILABLE	VERSION
1	FCBB-0009			Flex PCB Iris, Head Leds Left Bare		2.0.0
5	PASD-0019	LXML-PWC2-1000RL	Future Electronics inc.	Cool White SMT LED, Rebel ES *** Binning Restrictions: A (flux bin) =B,C *** Binning Restrictions: B and C (color bin): W0		1.0.0

ISO-RD-EN0005

**PCB LOCATION**

D1, D2, D3, D4, D5

## SUB ASSEMBLY DESCRIPTION

# inventaire	Description	Version
PCBA-0045	PCB Iris, Base Back Ass'y	3.0.1

\*For resistors and ceramic capacitors, any component equivalent or better than the specified source is acceptable.

QTY	HUMANWARE PART NUMBER	MANUFACTURER PART NUMBER	MANUFACTURER	DESCRIPTION	SUBSTITUTE AVAILABLE	VERSION
3	CC7C-F102	04025C102KAT2A	AVX	Capacitor, ceramic, 1000pF, X7R, 0402, 50 V, 10%		1.0.0
1	JSFQ-0001	SM02B-SFHRS-TF	JST	Connector, SMT, 2 pins, 90deg, 1.8mm pitch		1.0.0
1	JTFU-0007	548190519	Molex	Connector, Thru Hole, USB Mini AB		1.0.0
1	JTFW-0001	2DC-S113-L05	Singatron	Connector, Thru hole, power jack, 90deg, 6,5mm OD, 3mm pin		1.0.0
1	JTML-0001	S5B-ZR	JST	Connector, Thru Hole, Shrouded header, 5 pins, 1.5mm pitch, right angle		1.0.0
1	PASB-0022	ACM2012-201-2P-T002	TDK	Choke comm mode 200 ohm .35A smd		1.0.0
1	PASB-0027	RClamp0504P	Semtech	Low Capacitance TVS for ESD		1.0.0
2	PASB-0028	BLM18KG700TN1D	Murata	Ferrite Bead, 70 ohm, 3500mA, 0603, 70ohm ±25%		1.0.0
1	PASB-0041	ESD9B5.0ST5G	Onsemi	Transient Voltage Suppressor for ESD Protection, 300mW		1.0.0
1	PCBB-0045			PCB Iris, Base Back Bare		3.0.1


PCB LOCATION
C1, C2, C3
J2
J3
J1
J4
L2
L1
FB1, FB2
D2
PCB1



## SUB ASSEMBLY DESCRIPTION

# inventaire	Description	Version
PCBA-0047	PCB Iris, Head Connect Ass'y	2.0.2

\*For resistors and ceramic capacitors, any component equivalent or better than the specified source is acceptable.

QTY	HUMANWARE PART NUMBER	MANUFACTURER PART NUMBER	MANUFACTURER	DESCRIPTION	SUBSTITUTE AVAILABLE	VERSION
1	JSFC-0004	SM12B-GHS-TB	JST	Connector, SMT, 12 pins, 90 deg, 1.25mm pitch		1.0.0
2	JSMA-0005	SFW8R-2STE1LF	FCI	Connector, SMT, 8pins, 1mm pitch ZIF, Side entry top contact, 2.7mm profile		1.0.0
2	JSML-0010	S2B-ZR-SM4A-TF	JST	Connector, SMT, Shrouded header, 1 x 2 pin, 1.5mm pitch, right angle		1.0.0
1	PCBB-0047			PCB Iris, Head Connect Bare		2.0.0

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PCB LOCATION
J3
J1, J4
J6, J7

## SUB ASSEMBLY DESCRIPTION

# inventaire	Description	Version
PCBA-0048	PCB Iris, Base Ass'y	3.0.1

\*For resistors and ceramic capacitors, any component equivalent or better than the specified source is acceptable.

QTY	HUMANWARE PART NUMBER	MANUFACTURER PART NUMBER	MANUFACTURER	DESCRIPTION	SUBSTITUTE AVAILABLE	VERSION
17	CC5C-C105	0402ZD105KAT2A	AVX	Capacitor, ceramic, 1uF, X5R, 0402, 10 V, 10%		1.0.0
22	CC5C-D104	0402YD104KAT2A C0402C104K4RAC	AVX Kemet	Capacitor, ceramic, 0.1uF, X5R, 0402, 16 V, 10%		1.0.0
4	CC5C-D474	C1005X5R1C474K	TDK	Capacitor, ceramic, 0.47uF, X5R, 0402, 16V, 10%		1.0.0
6	CC5D-C106	ECJ-1VB1A106M C1608X5R1A106M	Panasonic TDK	Capacitor, ceramic, 10uF, X5R, 0603, 10V, 20%		1.0.0
5	CC5EA-C226	C2012X5R1A226M/1.25	TDK	Capacitor, ceramic, 22uF, X5R, 0805, 10V, 20%, 1.25mm		1.0.0
5	CC5F-E475	12063D475KAT2A	AVX	Capacitor, ceramic, 4.7uF, X5R, 1206, 25 V, 10%		1.0.0
8	CC7C-D223	0402YC223KAT2A	AVX	Capacitor, ceramic, 0,022uF, X7R, 0402, 16V, 10%		1.0.0
15	CC7C-F102	04025C102KAT2A	AVX	Capacitor, ceramic, 1000pF, X7R, 0402, 50 V, 10%		1.0.0
3	CC7D-F103	06035C103KAT2A	AVX	Capacitor, ceramic, 0.01uF, X7R, 0603, 50V, 10%		1.0.0
14	CC7D-F104	06035C104KAT2A	AVX	Capacitor, ceramic, 0.1uF, X7R, 0603, 50 V, 10%		1.0.0
8	CC7G-E106	12103C106KAT2A	AVX	Capacitor, ceramic, 10uF, X7R, 1210, 25 V, 10%		1.0.0
1	CC7K-F106	C5750X7R1H106M	TDK	Capacitor, ceramic, 10uF, X7R, 2220, 50 V, ESR 3mOHM		1.0.0
4	CCNC-E220	04023A220KAT2A	AVX	Capacitor, ceramic, 22pF, COG, 0402, 25V, 10%		1.0.0
12	CCNC-E471	04023A471JAT2A	AVX	Capacitor, ceramic, 470pF, COG, 0402, 25V, 5%		1.0.0
2	CCNC-F101	04025A101JAT2A	AVX	Capacitor, ceramic, 100pF, COG, 0402, 50V, 5%		1.0.0
1	JSFA-0006	SFW16R-1STE1LF	FCI	Connector, SMT, FFC, 16 pins, 1mm pitch, Bottom Contacts		1.0.0
1	JSFA-0007	SM26B-SHLS-TF	JST	Connector, SMT, 26 pins, 1mm pitch, 1A, 50V		1.0.0
1	JSFC-0004	SM12B-GHS-TB	JST	Connector, SMT, 12 pins, 90 deg, 1.25mm pitch		1.0.0
1	JSFQ-0001	SM02B-SFHRS-TF	JST	Connector, SMT, 2 pins, 90deg, 1.8mm pitch		1.0.0
1	JSFQ-0002	SM02B-LEASS-TF	JST	Connector, SMT, 2 pins, 90deg, 1.8mm pitch, Low profile, 3A		1.0.0
2	JSML-0010	S2B-ZR-SM4A-TF	JST	Connector, SMT, Shrouded header, 1 x 2 pin, 1.5mm pitch, right angle		1.0.0
1	JTFI-0007	TSH-5136S-PA6T-1AG-1A	Technik	Connector, Thru hole, jack stereo 3.5mm, with 2 detections		1.0.0
2	JTFU-0005	CH11-0104300-AR UAFR08-BLPG0AA	A.R. GRAY Antenk	Connector, Thru hole, USB Std type A, Female, Reverse Mount		1.0.0
1	JTML-0001	S5B-ZR	JST	Connector, Thru Hole, Shrouded header, 5 pins, 1.5mm pitch, right angle		1.0.0
7	PASB-0014	BLM18PG471SN1	Murata	Ferrite Bead, 470 ohm, 1000mA, 0603		1.0.0
1	PASB-0016	ACM1211-102-2PL-TL	TDK	Common Mode Filter, SMT, 1k		1.0.0
7	PASB-0028	BLM18KG700TN1D	Murata	Ferrite Bead, 70 ohm, 3500mA, 0603, 70ohm ±25%		1.0.0
2	PASB-0041	ESD9B5.0ST5G	Onsemi	Transient Voltage Suppressor for ESD Protection, 300mW		1.0.0
4	PASB-0043	TPD2S017DBVR	Texas Instruments	2-Channel ESD Solution With Series-Resistor Isolation		1.0.0
1	PASB-0057	SMCJ22A	Vishay	IC, Unidirectionnal transient suppressor 22V 1500W SMC		1.0.0
2	PASI-0023	1-1825027-4	Tyco Electronics (connectivity)	SPST Micro Mignature Push button Switch		1.0.0
3	PASL-0035	NS10165T220MNA	Taiyo Yuden	Inductor 22uH, 3.4A, 3.6A sat		1.0.0
1	PASL-0049	SRN8040-6R8Y	Taiyo Yuden	Inductor 6.8uH, 3.9A, 30%		1.0.0
2	PASL-0050	SDR1006-680KL	Bourns	SMD POWER INDUCTOR, 68uH RDC= 0.22, I=1.1A, ISat=2.0A		1.0.0
1	PASL-0051	SDR1006-101KL	Bourns	SMD POWER INDUCTOR, 100uH RDC= 0.35, I=1.0A, ISat=1.7A		1.0.0
1	PASX-0012	7M-24.000MAAJ-T	TXC corporation	CRYSTAL 24.000 MHZ 18PF SMD		1.0.0
1	PASX-0024	NX8045GB-8.000000MHZ	NDK	Crstal 8.000000 MHZ 8PF 50PPM SMT		1.0.0
1	PCBB-0048			PCB Iris, Base Bare		3.0.0
14	RCBB-02R2	RM04F02R2CT	Cal-chip electronics	Resistor, Thick film, 2.2ohm, 0402, 1/16 W, 1%		1.0.0

32	RCBB-1002	RM04F1002CT RM04F1002CTLF	Cal-chip electronics Cal-chip electronics	Resistor, Thick film, 10K ohm, 0402, 1/16 W, 1%		1.0.0
10	RCBB-1003	RM04F1003CT RM04F1003CTLF	Cal-chip electronics Cal-chip electronics	Resistor, Thick film, 100K ohm, 0402, 1/16 W, 1%		1.0.0
2	RCBB-1004	RM04F1004CT	Cal-chip electronics	Resistor, Thick film, 1M ohm, 0402, 1/16 W, 1%		1.0.0
1	RCBB-1053	CRCW0402105KFKED	Vishay	Resistor, Thick film, 105K ohm, 0402, 1/16 W, 1%		1.0.0
3	RCBB-10R0	RM04F10R0CT	Cal-chip electronics	Resistor, Thick film, 10 ohm, 0402, 1/16 W, 1%		1.0.0
4	RCBB-1201	RM04F1201CT	Cal-chip electronics	Resistor, Thick film, 1.2K ohm, 0402, 1/16 W, 1%		1.0.0
1	RCBB-1202	RM04F1202CT	Cal-chip electronics	Resistor, Thick film, 12K ohm, 0402, 1/16 W, 1%		1.0.0
1	RCBB-1403	CRCW0402140KFKED	Vishay	Resistor, Thick film, 140K ohm, 0402, 1/16 W, 1%		1.0.0
3	RCBB-2002	RM04F2002CT	Cal-chip electronics	Resistor, Thick film, 20K ohm, 0402, 1/16 W, 1%		1.0.0
5	RCBB-3320	RM04F3320CTLF	Cal-chip electronics	Resistor, Thick film, 332 ohm, 0402, 1/16 W, 1%		1.0.0
1	RCBB-3652	CRCW040236K5FKED	Vishay	Resistor, Thick film, 36.5K ohm, 0402, 1/16W, 1%		1.0.0
2	RCBB-3831	RM04F3831CTLF	Cal-chip electronics	Resistor, Thick film, 3K83 ohm, 0402, 1/16 W, 1%		1.0.0
4	RCBB-4702	RM04F4702CT	Cal-chip electronics	Resistor, Thick film, 47K ohm, 0402, 1/16 W, 1%		1.0.0
1	RCBB-6341	RM04F6341CTLF	Cal-chip electronics	Resistor, Thick film, 6K34 ohm, 0402, 1/16 W, 1%		1.0.0
1	RCBB-9531	CRCW04029K53FKED	Vishay	Resistor, Thick film, 9.53K ohm, 0402, 1/16 W, 1%		1.0.0
10	RCBC-0000	RM04J000CTLF RM04J000CT	Cal-chip electronics Cal-chip electronics	Resistor, Thick film, 0 ohm, 0402, 1/16 W, 5%		1.0.0
8	RDBC-0000	RM06J000CTLF	Cal-chip electronics	Resistor, Thick film, 0 ohm, 0603, 1/16 W, 5%		1.0.0
3	RDCB-27R0	RM06F27R0CT	Cal-chip electronics	Resistor, Thick Film, 27 ohm, 0603, 1/10W, 1%		1.0.0
3	RDLB-R200	RCWE0603R200FKEA	Vishay	Resistor, Thick film, 0.2ohm, 0603, 1/5 W, 1%		1.0.0
2	SEMD-0003	BAT54	Fairchild	IC, Diode Signal Schottky Single		1.0.0
5	SEMD-0009	BZX84-C5V6	NXP	IC, Zener Diode, 5.6V, 250mW, 5%		1.0.0
7	SEMD-0029	B260A-13-F SMA 10MQ060NPBF	Diodes inc. Vishay	IC, Diode Schottky, 60V 1.5A		1.0.0
1	SEMI-0047	TPA6041A4RHBR	Texas Instruments	IC, 2-W Stereo Audio Power Amplifier w/DirectPath Stereo Headphone Drive & Regulator		1.0.0
1	SEMI-0059	USB2514B-AEZC	SMSC	IC, USB 2.0 Hi-Speed Hub		1.0.0
1	SEML-0002	MAX6443US29L+	Maxim	IC, µP Reset Circuits 2.9 volt		1.0.0
2	SEML-0030	TPS54283PWPR	Texas Instruments	IC, 4.5V to 28V Input, Dual 2A Output, 300kHz Step-Down Converter with Internal Compensation		1.0.0
1	SEML-0041	TPS60403QDBVRQ1	Texas Instruments	IC, Unregulated 60mA charge pump inverter		1.0.0
2	SEML-0042	INA152EA/250	Texas Instruments	IC, Unity gain Difference amplifier		1.0.0
1	SEML-0043	TPS54332DDA	Texas Instruments	IC, 28V Input, Step-Down DC/DC Converter With Eco-mode		1.0.0
3	SEML-0044	AL8807MP-13	Diodes inc.	IC, High Efficiency Low EMI 36V 1A Buck Led Driver		1.0.0
2	SEML-0045	TPS2051BDBV	Texas Instruments	IC, Current-Limited, Power-Distribution Switches		1.0.0
3	SEMQ-0012	IRF7319PBF	International Rectifier	IC, Dual HEXFET N & P Channel 30V		1.0.0
1	SEMT-0003	NC7WZ16P6	Fairchild	IC, UHS Dual Buffer		1.0.0
3	SEMT-0028	SN74LVC1G07DBV	Texas Instruments	IC, Single Buffer/Driver With Open-Drain Output		1.0.0
1	SEMU-0007	DSPIC33EP512MU810-I/PT	MicroChip	IC, 16-bit Microcontrollers and Digital Signal Controllers, with High Speed PWM, USB, and Adverse Analog		1.0.0

PCB LOCATION
C5,C6,C10,C11,C12,C16,C19,C24,C28,C34,C68,C69,C70,C106,C107,C132,C133
C1,C20,C23,C25,C26,C29,C31,C32,C33,C35,C98,C99,C100,C101,C102,C103,C104,C113,C121,C141,C142,C143
C14,C15,C17,C18
C4,C13,C41,C46,C53,C97
C27, C30,C40,C45,C52
C61,C67, C81,C84,C86
C38,C43,C50,C62,C64,C92,C114,C131
C7,C8,C9,C63,C65,C76,C123,C129,C130,C134,C135,C136,C137,C138,C139
C60,C66,C80
C71,C72,C73,C74,C77,C78,C83,C85,C115,C116,C117,C118,C119,C120
C79,C36,C37,C48,C49,C82,C87,C88
C75
C2,C3,C96,C105
C39,C42,C44,C47,C51,C54,C93,C94,C122,C124,C125,C140
C21,C22
J8
J10
J7
J1
J14
J5,J6
J4
J2,J3
J11
ZL1,L6,L7,L8,L13,L18,L19
L5
FB1,FB3,FB4,FB5,FB6,FB7,FB8
D1,D2
U6,U7,U9,U11
D20
SW1,SW2
L1,L2,L3
L9
L11,L16
L17
Y1
Y3
PCB1
R10,R15,R16,R19,R23,R31,R32,R39,R43,R56,R59,R87,R106,R124

R2,R5,R6,R7,R8,R9,R11,R14,R28,R29,R30,R36,R51,R62,R63,R69, R70,R71,R74,R76,R78,R108,R109,R112,R113,R116,R117,R120,R1 21,R122,R125,R139
R17,R18,R21,R107,R111,R115,R123,R134,R146,R149
R1,R99
R3
R34,R40,R44
R33,R35,R66,R137
R27
R68
R38,R42,R46
R57,R88,R90,R104,R105
R13
R37,R41
R141,R142,R143,R144
R45
R12
R4,R20,R24,R52,R53,R55,R72,R73,R140,R147
R64,R96,R100,R130,R132,R133,R135,R136
R110,R114,R118
R75,R77,R84
D15,D16
D7,D11,D12,D13,D14
D3,D5,D6,D9,D10,D17,D18
U8
U3
U19
U1,U2
U14
U12,U13
U15
U23,U24,U25
U4,U5
Q5,Q6,Q7
U16
U17,U21,U22
U10

## SUB ASSEMBLY DESCRIPTION

# inventaire	Description	Version
PCBA-0051	PCB Iris, Power Button Ass'y	2.0.0

\*For resistors and ceramic capacitors, any component equivalent or better than the specified source is acceptable.

QTY	HUMANWARE PART NUMBER	MANUFACTURER PART NUMBER	MANUFACTURER	DESCRIPTION	SUBSTITUTE AVAILABLE	VERSION
4	PASD-0018	LTST-C155GEKT	Liteon	LED SMT, Green & Red, 2.7 X 3.2mm		1.0.0
1	PASI-0020	SKRBAAE010	alps electric inc.	Switch, Tactile & Jog Switches 4.8x4.8x0.55mm 160gf		1.0.0
1	PCBB-0051			PCB Iris, Power Button Bare		2.0.0

ISO-RD-EN0005

PCB LOCATION
D1, D2, D3, D4
S3



## SUB ASSEMBLY DESCRIPTION

# inventaire	Description	Version
PCBA-0052	PCB Iris, Button Ass'y	2.0.0

\*For resistors and ceramic capacitors, any component equivalent or better than the specified source is acceptable.

QTY	HUMANWARE PART NUMBER	MANUFACTURER PART NUMBER	MANUFACTURER	DESCRIPTION	SUBSTITUTE AVAILABLE	VERSION
1	PASI-0017	SKRRABE010	alps electric inc.	Switch, tactile, light touch, 0.25mm travel, 160g SMD		1.0.0
1	PCBB-0052			PCB Iris, Button Bare		2.0.0

ISO-RD-EN0005

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PCB LOCATION
S1