

# Bill Of Materials for Placa FPGA ICECREAM

**Design Title** Placa FPGA ICECREAM  
**Author** J. Arias  
**Document Number**  
**Revision** 1.2  
**Design Created** viernes, 22 de noviembre de 2019  
**Design Last Modified** jueves, 04 de febrero de 2021  
**Total Parts In Design** 102

## 35 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>MANUFACTURER</u>	<u>PARTNUMBER</u>	<u>Supplier</u>	<u>Stock Code</u>
21	C1-C8, C13, C15-C19, C21, C24, C28-C32	100nF	0603				
3	C9, C11, C22	4.7uF	0805				
4	C10, C12, C23, C33	1uF	0805				
3	C14, C34-C35	10uF	0805				
2	C20, C25	100nF	0805				
2	C26-C27	33pF	0805				

Sub-totals:

## 24 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>MANUFACTURER</u>	<u>PARTNUMBER</u>	<u>Supplier</u>	<u>Stock Code</u>
3	R1-R2, R14	10k	0805_RES				
1	R3	12k	0805_RES				
2	R4, R6	4k7	0805_RES				
2	R5, R8	33k	0805_RES				
1	R7	1k5	0805_RES				
3	R9, R19, R24	100R	0805_RES				
2	R10-R11	1R	0805_RES				
5	R12-R13, R18, R22-R23	2k2	0805_RES				
5	R15-R17, R20-R21	680R	0805_RES				

Sub-totals:

## 7 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>MANUFACTURER</u>	<u>PARTNUMBER</u>	<u>Supplier</u>	<u>Stock Code</u>
1	U1	ICE40HX1K-TQ144	QFP50P2200X2200X160-144	Lattice Sem.	ICE40HX1K-TQ144	Farnell	2362849
2	U2-U3	MCP1725-ADJE/SN	SOIC127P600X175-8	Microchip	MCP1725-ADJE/SN	Farnell	1834878

1	U4	CY7C1021D	SOP80P1176X120-44	Cypress Sem.	CY7C1021DV33-10ZSX	Farnell	2115418
1	U5	CY7C65213-28PVX	SSOP28	Cypress Sem.	CY7C65213-28PVX	Farnell	2767866
1	U6	IS25LP032D-JNLE	SOP2-8	ISSI	IS25LP032D-JNLE	Farnell	2787053
1	U7	LPC1112FD20/102	SO20W	NXP	LPC1112FD20/102	Farnell	2470837

Sub-totals:

### 6 Diodes

Quantity	References	Value	PCB Package	MANUFACTURER	PARTNUMBER	Supplier	Stock Code
1	D1	1N4448WS	SOD-323	Multicomp	1N4448WS-7-F	Farnell	2306367
4	D2-D4, D7	LED-RED	LED0805	KINGBRIGHT	KPT-2012SRC-PRV	Farnell	2463994
1	D8	LED-GREEN	LED0805	KINGBRIGHT	KP-2012LSGC	Farnell	2463991

Sub-totals:

### 30 Miscellaneous

Quantity	References	Value	PCB Package	MANUFACTURER	PARTNUMBER	Supplier	Stock Code
24	'1V2, '3V3, '5V, 'CLK, 'CTS, 'DONE, 'DTR, 'GND1-'GND3, 'HOLD, 'I1V2, 'I3V3, 'ICEDI, 'ICEDO, 'OE, 'RES, 'RTS, 'RXD, 'SCK, 'SS, 'TXD, 'WE, 'WP	PIN	PIN				
1	J1	USB-F-TYPE_MINIB	USB-F-TYPE-MINIB	WURTH ELEKTRONIK	65100516121	Farnell	1642036
1	J2	CONN-DIL60	CONN-DIL60	Multicomp	2214S-60SG-85	Farnell	2847250
1	J3	CONN-DIL50	CONN-DIL50	Multicomp	2214S-50SG-85	Farnell	2847249
1	JP1	JUMPER	CONN-SIL2				
1	L1	MH2029-221Y	0805	Bourns	MH2029-221Y	Farnell	2519646
1	X1	9B-12.000MEEJ-B	HC-49S-TH	TXC	9B-12.000MEEJ-B	Farnell	1842204

Sub-totals:

Totals: