

BILL OF MATERIALS FOR THE MAIN BOARD OF LC786830TYPE2-GEVK

Designator	Value	MFR	MFG P/N	Description
IC101		ON Semiconductor	LC786830W	
IC102		ON Semiconductor	CAT24C256WI-GT3	
IC103		Winbond	W25Q16JVSSIQ	For your application software.
IC104		Winbond	W25Q32JVSSIQ	Don't overwrite.
IC105		IPUS	IPS6404L-SQ-SPN	Not mounted, PSRAM
IC106		ON Semiconductor	NCP380HSNAJAAT1G	
IC107		ON Semiconductor	74FST3257DR2G	
IC201		nFore	NF2210EZ (2.4 GHz, Stamp-40)	Bluetooth module on Board
IC501, IC502, IC503, IC505		ON Semiconductor	NCP59302DSADJR4G	
IC504		Rohm	BD12IC0MEFJ-ME2	
IC601, IC602, IC603		TI	PCM5142PWR	
IC604, IC605, IC606, IC607, IC608, IC609		ON Semiconductor	NLASB3157DFT2G	
IC610		TI	OPA344NA/250	
X101		NDK	NX3215SA-32.768 kHz-STD-MUS-2	
X102		NDK	NX3225GA-24.000 MHz-STD-CRG-2	
D191		ON Semiconductor	1N5819	Schottky Diode, 40 V, 1 A
D101, D192, D211		ON Semiconductor	GMA01U-BT	
D212		-	-	Not mounted, LED
R101, R102, R103, R118, R119, R120, R121, R122, R123, R158, R213, R214, R215, R216, R224, R230, R231, R461, R462, R463, R500, R501, R502, R504, R505, R506, R517, R518, R527, R528, R529, R537, R541, R553, R557, R608, R628, R648, R666, R667, R681, R682, R684, R685, R686, R687, R821, R862, R864, R870, C218	0 Ω	Rohm	MCR03EZPJ000	
R106, R111	22 Ω	Rohm	MCR03EZPJ220	
R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182	47 Ω	Rohm	MCR03EZPJ470	
R167, R168, R191, R470, R471, R472, R473, R474	100 Ω	Rohm	MCR03EZPJ101	

BILL OF MATERIALS FOR THE MAIN BOARD OF LC786830TYPE2-GEVK (continued)

Designator	Value	MFR	MFG P/N	Description
R113, R226, R227, R228, R229	220 Ω	Rohm	MCR03EZPJ221	
R602, R603, R622, R623, R642, R643	470 Ω	Rohm	MCR03EZPJ471	
R673, R674, R677, R678, R680	680 Ω	Rohm	MCR03EZPJ681	
R108, R110, R115, R135, R136, R225, R662	1.0 kΩ	Rohm	MCR03EZPJ102	
R515, R525	1.2 kΩ	Rohm	MCR03EZPJ122	
R117	1.5 kΩ	Rohm	MCR03EZPJ152	
R217, R555	1.8 kΩ	Rohm	MCR03EZPJ182	
R133, R134, R161, R162, R533, R112, R116, R155, R156, R157, R661	2.2 kΩ	Rohm	MCR03EZPJ222	
R513, R523	3.3 kΩ	Rohm	MCR03EZPJ332	
R535, R194, R195	4.7 kΩ	Rohm	MCR03EZPJ472	
R516, R526, R536, R556	6.8 kΩ	Rohm	MCR03EZPJ682	
R131, R137, R138, R139, R140, R141, R142, R151, R152, R154, R220, R222, R464, R475, R514, R522, R524, R532, R552, R605, R625, R645, R663, R664, R691, R801	10 kΩ	Rohm	MCR03EZPJ103	
R192	18 kΩ	Rohm	MCR03EZPJ183	
R132	20 kΩ	Rohm	MCR03EZPJ203	
R107, R109, R534	33 kΩ	Rohm	MCR03EZPJ333	
R465, R466, R467, R468, R469, R511, R554	47 kΩ	Rohm	MCR03EZPJ473	
R218	51 kΩ	Rohm	MCR03EZPJ513	
R665, R671, R672, R675, R676, R679	100 kΩ	Rohm	MCR03EZPJ104	
R114	270 Ω	Susumu	RR0816P-271-D	
R153	5.49 kΩ	Susumu	RG2012P-5491-B-T5	
R104, R105, R159, R163, R164, R165, R166, R219, R221, R512, R521, R531, R551, R606, R626, R646, R683, R688, R689, R825, R826, R827, R828, R872, R877, R878	Not mounted	-		Not mounted, Resistor
C125, C126	6 pF	muRata	GRM1882C1H6R0DZ01	
C109, C110	18 pF	muRata	GRM1882C1H180JA01	
C461, C462, C463, C464, C465	33 pF	muRata	GRM1882C1H330JA01	
C666	100 pF	muRata	GRM1882C1H101JA01	
C137, C140	220 pF	muRata	GRM1882C1H221JA01	
C176, C177, C178, C179, C671, C672, C675, C676, C679	1000 pF	muRata	GRM1882C1H102JA01	

BILL OF MATERIALS FOR THE MAIN BOARD OF LC786830TYPE2-GEVK (continued)

Designator	Value	MFR	MFG P/N	Description
C610, C611, C630, C631, C650, C651	2200 pF	muRata	GRM188B11H222KA01	
C139	4700 pF	muRata	GRM188B11H472KA01	
C138	6800 pF	muRata	GRM188B11H682KA01	
C174, C175	0.01 μ F	muRata	GRM188R71C103KA01D	
C101, C102, C103, C104, C105, C106, C107, C108, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C141, C142, C143, C171, C184, C194, C195, C196, C212, C213, C214, C467, C512, C522, C532, C552, C601, C604, C607, C608, C621, C624, C627, C628, C641, C644, C647, C648, C661, C665	0.1 μ F	muRata	GRM188R71C104KA01D	
C191, C192, C193, C664, C541, C542, C612, C613, C614, C615, C616, C617	1 μ F	muRata	GRM188R71C105KA12D	
C602, C603, C622, C623, C642, C643	2.2 μ F	TDK	C1608X7S0J225K080AB	
C663	10 μ F	muRata	GRM188D71A106MA73D	
C180, C181, C182, C183, C217, C219, C681, C682, C683	Not mounted	-	-	Not mounted, Ceramic Capacitor
C605, C606, C609, C625, C626, C629, C645, C646, C649, C161, C162, C167, C168, C169, C170, C215, C216, C511, C521, C531, C551, C673, C674, C677, C678, C680	10 μ F/50 V	Nichicon	UKW1H100MDD1TD	
C152, C156	47 μ F/25 V	Nichicon	UKW1E470MDD1TD	
C153, C172, C211	100 μ F/25 V	Nichicon	UKW1E101MED1TD	
C466, C561, C562, C563, C564, C662	100 μ F/10 V	suncon	10ME100HC	
C173, C513, C523, C533	220 μ F/25 V	Nichicon	UKW1E221MPD1TD	
C501	1000 μ F/25 V	Nichicon	UKW1E102MPD1TD	
C151, C154, C155, C157, C163, C164, C565, C566	Not mounted	-	-	Not mounted, Electrolytic Capacitor
JP1, JP2, JP3		Mac8	WL-8	
DSW101		OTAX	KSD42	Not mounted, DIP-SW
SW101		Alps Alpine	SKHHAJA010	
U101		Sanyo	SPS-440-1	
U102		muRata	PKM13EPYH4000-A0	
U601		DB Products Limited	C9767BB422LFP	
AMCA31		ABRACON	AMCA31-2R450G-S1F-T3	
CN101		Omron	XM7A-0442	
CN102A, CN102B		Mac8	WL-8	

BILL OF MATERIALS FOR THE MAIN BOARD OF LC786830TYPE2-GEVK (continued)

Designator	Value	MFR	MFG P/N	Description
CN103		HIROSE	HIF3FC-20PA-2.54DSA (71)	
CN401		YAMAICHI	FPS009-2406-0	
CN601		CUI Inc.	RCJ-61232323	
CN602		SWITRONIC	ST-005-G	
CN801		HIROSE	FX2-52P-1.27DS (71)	
CN802		HIROSE	FX2-20P-1.27DS (71)	
CN803		HIROSE	FX2-52S-1.27DS (71)	

BILL OF MATERIALS FOR THE LCD BOARD OF LC786830TYPE2-GEVK

Designator	Value	MFR	MFG P/N	Description
Q151		UNISONIC TECHNOLOGIES	2SA733	
Q152		UNISONIC TECHNOLOGIES	2SC945	
RE101		Alps	EC12E2430803	
LCD Module		HiLetgo®	2.8TFT LCD DISPLAY Touch Panel SPI serial 240*320 ILI9341 5 V/3.3 V	
K11, K12, K13, K14, K21, K22, K23, K24		Cosland	TS-0606	
R107, R108, R109, R110, R111, R112, R113, R125, R126, R127, R128, R135, R136, R137, R138, R139, R140, R141, R144, R155, R157, R171	0 Ω	KOA	RK73Z1JTDD	
R151, R153	3.3 kΩ	KOA	RK73H1JTDD3301F	
R152, R154, R161, R162, R163, R164, R165, R166, R167, R168	10 kΩ	KOA	RK73H1JTDD1002F	
R156	Not mounted	-		Not mounted, Resistor
CN101		HIROSE	FX2-52S-1.27DS (71)	
CN103		aitendo	PH254S-B6-40P	

BILL OF MATERIALS FOR THE DOWNLOADER BOARD OF LC786830TYPE2-GEVK

Designator	Value	MFR	MFG P/N	Description
IC101		ON Semiconductor	LC87F10C8A	
IC102		Toshiba	TC7SH34FU	
X1		muRata	CSTLS16M9X53	
Q101		ON Semiconductor	2SA1179N	
D1		ON Semiconductor	GMA01U-BT	
R70, R73, R101, R102, R103, R104, R106, R108, R109, R110, R111, R112, R113, R114, R115, R116, R120	0 Ω	KOA	RK73Z1JTDD	
R64, R65	33 Ω	KOA	RK73H1JTDD330F	
R50, R51, R54, R55, R56, R66	100 Ω	KOA	RK73H1JTDD1000F	
R72	220 Ω	KOA	RK73H1JTDD2200F	
R67	1.5 kΩ	KOA	RK73H1JTDD1501F	
R60	2.2 kΩ	KOA	RK73H1JTDD2201F	
R68	3.3 kΩ	KOA	RK73H1JTDD3301F	
R61, R62, R63	33 kΩ	KOA	RK73H1JTDD3302F	
R52, R69	47 kΩ	KOA	RK73H1JTDD4702F	
R57, R58, R59	100 kΩ	KOA	RK73H1JTDD1003F	
R71	220 kΩ	KOA	RK73H1JTDD2203F	
R931, R932	Not mounted	-		Not mounted, Resistor
C5, C6	5 pF	muRata	GRM1885C1H5R0CZ01D	
C1, C2, C7, C14	0.1 μF	muRata	GRM188F11H104ZA01D	
C10	1 μF	muRata	GRM188F11C105ZA01D	
C9	2.2 μF	muRata	GRM188F11C225ZA01D	
C11	100 μF	muRata	GRM31CR61A107ME05	
C8	Not mounted	-	-	Not mounted, Capacitor
JP101		Mac8	WL-8	
TSW1		NIKKAI	G-12AP	RESET
DSW1		KSD32	OTAX	
CN101		HIROSE	FX2-20S-1.27DS (71)	
CN102		JST	UBB-4R-D14T-4D	
CN103		Mac8	WL-8	
CN105	Not mounted	HIROSE	HIF3FC-20PA-2.54DSA (71)	Not mounted, 20 pin-connector
CN106		Mac8	WL-8	