

Confirmed	Board	Ref	Item
x	BadgeBottom	M1	PICO MODUL
x	BadgeTop	Disp1	TFT Display
x	BadgeTop	LY 1, LY 2, LY 3, LY 4, LY 5, LY 6, LY 7, LY 8	LED YELLOW
x	BadgeTop	SW10, SW11, SW12	BUTTON 12x12
x	BadgeTop	SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9	BUTTON 6x6
x	BadgeTop	SW13	Joystick
x	BadgeBottom	SW14	SWITCH
x	BadgeBottom	U1	CODEC
x	BadgeBottom	U2	OpAmp
x	BadgeBottom	U3	Shift Register
x	BadgeBottom	U4	Audio Amplifier
x	BadgeBottom	T1	MOSFET
x	BadgeBottom	ZD1	ZenerDiode
x	BadgeBottom	C3, C4, C10, C11, C13, C14, C17, C18, C19, C20	CAPACITOR
x	BadgeBottom	C5, C6, C7, C8, C9, C12, C15, C16	CAPACITOR
x	BadgeBottom	C1,C2	Tantalum Capacitor
x	BadgeBottom	R1	RESISTOR
x	BadgeBottom	R8	RESISTOR
x	BadgeBottom	R9, R10, R11	RESISTOR
x	BadgeBottom	R2, R5, R6, R7, R12, R13	RESISTOR
x	BadgeBottom	R4	RESISTOR
x	BadgeBottom	R3	RESISTOR
x	BadgeTop	CON1	CONNECTOR
x	Expansion	CON1E	CONNECTOR
	BadgeTop	CON2	CONNECTOR
	BadgeBottom	BH1, BH2	BATTERY HOLDER
	BadgeBottom	SP1	SPEAKER
	BadgeBottom	L1	Choke 0805

Description	MFR	MFPN
1.28 inch round TFT display		SUN-0827
LED YELLOW CLEAR CHIP 0805 SMD	Kingbright	APT2012SYCK
Tactile Switch SPST-NO Top Actuated SMD	JS Switch	TL3300DF260Q
SWITCH TACTILE SPST-NO .05A 12V	C&K	PTS645SK50SMTR92 LFS
5 POSITION TACTILE, 12X12	TE Connectivity ALCOSWITCH	5 POSITION TACTILE, 12X12
SWITCH SLIDE SPDT 200mA 30V	E-Switch	EG1218
Audio Codec	Asahi Kasei Microdevices/AKM	AK4619VN
IC OPAMP GP 4 CIRCUIT 14TSSOP	Texas Instruments	LMV324AIPWR
IC LED DRIVER LINEAR 45MA 24SSOP	Texas Instruments	TLC59283DBQR
IC AMP MONO 700MW 8SOIC	Texas Instruments	TPA321DR
MOSFET P-CH 20V 4.2A SOT23	Diodes Incorporated	DMG2305UX-7
IC VREF SHUNT 0.5% SOT23	Diodes Incorporated	LM4040C30FTA
CAP CER 0.1UF 16V X7R 0603	Samsung Electro-Mechanics	CL10B104KO8NNNC
CAP CER 2.2UF 16V X5R 0603	Samsung Electro-Mechanics	CL10A225KO8NNNC
Tantalum Capacitor 0805	TAJB226K016RNJ	M20-9960445
Resistor 22R 0805	YAGEO	RC0603JR-0722RL
Resistor 330R 0805	YAGEO	RC0603JR-13330RL
Resistor 680R 0805	YAGEO	RC0603JR-13680RL
Resistor 2K7 0805	YAGEO	RES 2.7K OHM 5% 1/10W 0603
Resistor 22K 0805	YAGEO	RC0603FR-1022KL
Resistor 47K 0805	YAGEO	RES 47K OHM 1% 1/10W 0603
CONN HEADER R/A 4POS 2.54MM	Harwin Inc.	CONN HEADER R/A 4POS
CONN HDR 4POS 0.1 TIN PCB R/A	Sullins Connector Solutions	PPTC041LGBN-RC
CONN SOCKET 4POS 0.1 GOLD PCB	Preci-Dip	
BATT HOLDER AA 1 CELL PC PIN	Keystone Electronics	#2460
SPEAKER 8OHM 800MW 20mm 8Ohm	Taoglas Limited	SPKM.20.8.A
FIXED IND 47UH 170MA 3.7 OHM 0805	TDK Corporation	MLZ2012M470WT000

Dist	DPN	y Per U	PCBA	LAYER	Note
		1	SMD	BOTTOM	
		1	NOPOP	TOP	TH SOLDER
Digi-key	754-1134-1-ND	8	SMD	TOP	
Digi-key	EG4907CT-ND	3	SMD	TOP	
Digi-key	CKN9087TR-ND	9	SMD	TOP	
Digi-key	450-2425755-1TR-ND	1	SMD	TOP	
Digi-key	EG1903-ND	1	NOPOP	BOTTOM	TH SOLDER
Digi-key	974-AK4619VNCT-ND	1	SMD	BOTTOM	
Digi-key	296-51366-1-ND	1	SMD	BOTTOM	
Digi-key	296-30546-1-ND	1	SMD	BOTTOM	
Digi-key	296-46365-1-ND	1	SMD	BOTTOM	
Digi-key	DMG2305UX-7DICT-ND	1	SMD	BOTTOM	
Digi-key	LM4040C30FTADICT-ND	1	SMD	BOTTOM	
Digi-key	1276-1005-1-ND	10	SMD	BOTTOM	
Digi-key	1276-1040-1-ND	8	SMD	BOTTOM	
Digi-key	478-1682-1-ND	2	SMD	BOTTOM	
Digi-key	311-22GRCT-ND	1	SMD	BOTTOM	
Digi-key	13-RC0603JR-13330RLCT-ND	1	SMD	BOTTOM	
Digi-key	13-RC0603JR-13680RLCT-ND	3	SMD	BOTTOM	
Digi-key	311-2.7KGRCT-ND	6	SMD	BOTTOM	
Digi-key	13-RC0603FR-1022KLCT-ND	1	SMD	BOTTOM	
Digi-key	13-RC0603FR-1347KLCT-ND	1	SMD	BOTTOM	
Digi-key	952-3286-ND	2	NOPOP	TOP	TH SOLDER
Digi-key	S5440-ND	2	NOPOP	TOP	TH SOLDER
Digi-key	1212-1227-ND	1	NOPOP	TOP	TH SOLDER
SAGER	https://www.sager.com/product/246	2	NOPOP	BOTTOM	TH SOLDER
Digi-key	931-SPKM.20.8.A-ND	1	NOPOP	BOTTOM	TH SOLDER
Digi-key	445-6400-1-ND	1	SMD	BOTTOM	

Farnell#

in stock

Type: AZ Dislays ATM0128B1 ??? IC: GC9A01

similar looking Amazon -> fast - try this! <https://www.amazon.de/ARCELI-SPI-Schnittstelle-LCD-Anzeigemodul>

similar looking Amazon -> fast - try this! <https://www.amazon.de/AZDelivery-GC9A01-1-28-Zoll-Display-Ardui>

in stock

usable non SMD variant in stock. Could be bent and cut

button 6x6 SMD. Other color in stock

no farnell - not super critical check on e-waste

easy to use geric slide switch

nor Farnell!

orderd on ALI - could be too slow

replace with ST LMV324IPT 1842586

replace with TI TLC59281 or

other 16bit srial LED cc sink

IC - in stock

Farnell 3004583

generic P-FET sot23-

3V Zener sot123-3 3483099

KIT

KIT

use anything maybe some big ceramic - 3V3 buffer use

KIT

KIT

KIT

KIT

KIT

KIT

Pinheader

Pinheader

Pinheader

MULTICOMP PRO MP00032 3126558

use random 80hm speaker

could be rplaced with anything or 00hm

-Instrumentenanzeige-Echtzeit%BCberwachung/dp/B0CFXY1K1T
no/dp/B0C5RPLHQ4

