

ATSAMD21G18 Cortex M0 Breakout Board v1.0

Arduino-compatible, breadboard-compatible with onboard uSD and RTC.

Comes with a 5-pin SWD programming interface so the bootloader can be flashed using an STLink v2 and [adalink](#).

Bill of Materials

Ref	Qty	Description	Digikey PN
C1 C2 C5	3	CAP CER 1UF 25V X7R 0603	587-2984-1-ND
C10 C11 C4 C7 C9	5	CAP CER 0.1UF 100V X7R 0603	490-3285-1-ND
C3	1	CAP CER 10UF 16V X7R 0805	1276-2872-1-ND
C6 C8	2	CAP CER 22pF 50V NP0 0603	399-9031-1-ND
D1 D3	2	VARISTOR ESD PROTECT USB	CG0603MLC-05ECT-ND
D2	1	DIODE SCHOTTKY 20V 1A SMA	SS12-E3/61TGICT-ND
J1	1	HEADER MALE 5POS TH 1x05 0.1IN	952-1902-ND
J2	1	USB MICRO-B RECEPTACLE 5PIN SMT R/A STUDS	609-4616-1-ND
J3 J4	2	HEADER FEMALE 18POS TH 1x18 0.1IN	952-1905-ND
L1 L2 L3	3	FERRITE BEAD 30 OHM 0805 1LN	MH2029-300YCT-ND
R1	1	RES SMD 1K OHM 1% 1/10W 0603	1276-3484-1-ND
R2	1	RES SMD 10K OHM 1% 1/8W 0603	RNCP0603FTD10K0CT-ND
R3	1	RES SMD 330 OHM 5% 1/10W 0603	311-330GRCT-ND
S1	1	SWITCH TACTILE SPST-NO 0.05A 12V	SW1020CT-ND
U1	1	IC REG LDO 3.3V 0.5A BU33SD5WG 5SSOP	BU33SD5WG-TRCT-ND
U2	1	IC MCU 32BIT 256KB FLASH ATSAMD21G 48TQFP	ATSAMD21G18A-AUTCT-ND
X1	1	CRYSTAL 16MHZ 30PPM 18pF 4SMD	CTX1206CT-ND



