



Bill of Materials for the DVK-NCS36510-MBED-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
A1, A2, D1, D2, I2C1,	6	Grove Universal 4 Pin Connector	Grove con		4pin Grove	Mouser/Seed Studio	713-110990030/110990030	-	YES
Avst1	1	Active header	2x6-1x6-1x10			Sparkfun	2x PRT-11895, PRT-11894, PRT-11896	-	YES
C1, C3, C4, C29	4	SMD Tantal Capacitor CST A	10uF 10V	10V	A			-	YES
C2, C23, C30, C31,	6	SMD chip capacitor CSX0603	10uF 10V		0603			-	YES
C5, C6	2	SMD chip capacitor CSN0603	10nF 25V	5% 25V	0603			-	YES
C7, C8	2	SMD chip capacitor CSN0603	18pF 50V	1% 50V	0603			-	YES
C9	1	SMD chip capacitor CSN0603	10pF 50V		0603			-	YES
C10, C11, C12, C13,	16	SMD chip capacitor CSN0603	100nF 50V	5% 50V	0603			-	YES
C27	1	SMD chip capacitor CSN0603	1nF 50V	5% 50V	0603			-	YES
C28	1	SMD chip capacitor CSN0603	10nF 50V	5% 50V	0603			-	YES
CON7	1	USB-micro-AB all pins SMD	MDK USB-micro-AB SMD			FCI; Digiteq	10104111-0001LF; 609-4053-1-ND	-	YES
D3, D4, D6, D9, D10, D11, D12	7	Schottky Barrier Diode	NSR1020MW2T1		SOD-323	ON Semiconductor	NSR1020MW2T1	-	YES
D7	1	Ultra low capacitance 2pF double rail-to-rail	CM1213A-02SR		SOT143B	ON Semiconductor	CM1213A-02SR	-	YES
D8	1	Zener Transient Voltage Suppressor, 5.0 V, 400	1SMA5.0AT3G		SMA-2, CASE 403D	ON Semiconductor	1SMA5.0AT3G	-	YES
dbb, LED3	2	SMD LED 1206 GREEN	GREEN		1206			-	YES
IC1	1	Single Operational Amplifier, 10 µV Offset, 0.07 µV/°C, Zero-Drift Precision, Low Power	NCS4333_S0C14		14-Pin SOIC, TSSOP	ON Semiconductor	NCS4333_S0C14	-	YES
IC2	1	ARM Microcontrollers - MCU 128K Flash, 36K	ATSAM3U2CA-AU			Atmel	556-ATSAM3U2CA-AU/ATSAM3U2CA-AU	-	YES
IF_SW2, TGT_SW2	2	SW Debug connector, 10 pole, vertical, Male,			Without pin 7	Samtec	FTSH-105-01-L-DV-K	-	YES
J1, J2, J4	3	1pcs- 2pin 2.54mm male header	jumper 1x2		Male R2.54mm			-	YES
J3	1	1pcs- 3pin 2.54mm male header	jumper 1x3		Male			-	YES
LED1, msd	2	SMD LED 1206 YELLOW	YELLOW		1206			-	YES
LED2, ser	2	SMD LED 1206 BLUE	BLUE		1206			-	YES
M1	1	RF Isakota module	RF Isakota		supplied by customer			-	YES
MEH1, MEH2, MEH3,	4	PCB SPACER SUPPORT	DURATOOL D01463 PCB			Farnell/Duratool	1733391/D01463	-	YES
Q1	1	SMD Quartz crystal 12 MHz 3.2x2.5mm	12MHz		3.2x2.5mm			-	YES
R1, R2	2	SMD chip resistor RS0603	39R 1%		0603			-	YES
R3, R4, R5, R6, R34, R35, R36	7	SMD chip resistor RS0603	4k7 1%		0603			-	YES
R7, R11, R18, R19	4	SMD chip resistor RS0603	1k0 1%		0603			-	YES
R8	1	SMD chip resistor RS0603	6k8 1%		0603			-	YES
R9, R32	2	SMD chip resistor RS0603	1k1 1%		0603			-	YES
R10, R33	2	SMD chip resistor RS0603	330R 1%		0603			-	YES
R12, R13	2	SMD chip resistor RS0603	150R 1%		0603			-	YES
R14, R21	2	SMD chip resistor RS0603	1R0 1%		0603			-	YES
R15, R17, R22, R23, R25, R26, R34, R35	8	SMD chip resistor RS0603	10k 1%		0603			-	YES
R16	1	SMD chip resistor RS0603	1M05 1%		0603			-	YES
R20, R28, R29	3	SMD chip resistor RS0603	10M 1%		0603			-	YES
R24	1	SMD chip resistor RS0603	78k7 1%		0603			-	YES
R27, R49	2	SMD chip resistor RS0603	750k 1%		0603			-	YES
R30	1	SMD chip resistor RS0603	37k4 1%		0603			-	YES
R31	1	SMD chip resistor RS0603	0R0 1%		0603			-	YES
R37, R45	2	SMD chip resistor RS0603	1k21 1%		0603			-	YES
R41, R43	2	SMD chip resistor RS0603	232R 1%		0603			-	YES
R42, R44	2	SMD chip resistor RS0603	402R 1%		0603			-	YES
R48	1	SMD chip resistor RS0603	2.4M 1%		0603			-	YES
RESET, SW1, SW2	3	Tact button SMD ALPS 3.9x2.9x2mm	SKRKAHE010		3.9x2.9mm, SMD button, 50mA, 12V, 1N operating force	ALPS	SKRKAHE010	-	YES
U1, U2	2	1.0 A Positive LDO Linear Voltage Regulator (Fixed and Adjustable)	NCP1117D		1.0 A Positive LDO Linear Voltage Regulator (Fixed and Adjustable)	ON Semiconductor	NCP1117D	-	YES