



Bill of Materials for the NCN26010XMNEVB Evaluation Board

Designator(Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C5, C8, C15	4	2.2 μ F \pm 20% 10V Ceramic Capacitor X7R 0603 (1608 Metric)	2.2uF	\pm 20%	0603 CAP	KEMET	C0603C225M8RAC7867CT	Yes	Yes
C3, C4	2	12 μ F \pm 5% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	12pF	\pm 5%	0603 CAP	KYOCERA AVX	06035C120J4T2A	Yes	Yes
C6, C7, C12, C13	4	0.1 μ F \pm 10% 100V Ceramic Capacitor X7R 0603 (1608 Metric)	100nF	\pm 10%	0603 CAP	Samsung Electro-Mechanics	CL10B104K8NNNC	Yes	Yes
C9	1	0.047 μ F \pm 10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	4.7nF	\pm 10%	0603 CAP	Samsung Electro-Mechanics	CL10B473KB8NNNC	Yes	Yes
C14	1	1 μ F \pm 10% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1uF	\pm 10%	0603 CAP	Murata Electronics	GCM188R71C105KA64D	Yes	Yes
D1	1	Green 520nm LED Indication - Discrete 3.2V 0603 (1608 Metric)	green		0603 LED	Würth Elektronik	150060GS75001	Yes	Yes
D2	1	Blue 470nm LED Indication - Discrete 3.2V 0603 (1608 Metric)	blue		0603 LED	Würth Elektronik	150060BS75001	Yes	Yes
D3	1	Yellow 590nm LED Indication - Discrete 2V 0603 (1608 Metric)	yellow		0603 LED	Würth Elektronik	150060YS75001	Yes	Yes
FB1	1	1 kOhms @ 100 MHz 1 - Ferrite Bead 0603 (1608 Metric) 100mA 1.6Ohm	1kOhm @100 MHz		0603 RES	Murata Electronics	BLM18HG102SH1D	Yes	Yes
J1	1	Jack Modular Connector 8p8c (RJ45, Ethernet) 90° Angle (Right) Shielded, EMI Finger Cat4	RJ45		RJ45	TE Connectivity	5406562-1	Yes	Yes
J2	1	Connector Header Through Hole 2 position 0.100" (2.54mm)	Termination		Jumper	Harwin	M20-9990246	Yes	Yes
J3	1	TSHS-103-S-08-A-G-LF Terminal Strip Header - Thru Hole - .100 cl	3pin_header		HEADER_3	Major League Electronics	TSHS-103-S-08-A-G-LF	Yes	Yes
J4	1	Connector Header Through Hole 2 position 0.100" (2.54mm)	Line + Termination		Jumper	Harwin	M20-9990246	Yes	Yes
J5	1	Connector Header Through Hole 10 position 0.100" (2.54mm)	10x1 Pin Header		10 Pin Header	Adam Tech	PH1-10-UA	Yes	Yes
J6	1	ICC (FCI) Connector Header Through Hole, Right Angle 12 position 0.100" (2.54mm)	PMOD Header Male		PMOD Header Male	Amphenol I	10129382-912002BLF	Yes	Yes
J7, J8	2	2 (1 x 2) Position Shunt Connector - Non-Insulated 0.400" (10.16mm) Gold	GND		Ground Bar	Harwin Inc. 2 (1 x	D3082-05	Yes	Yes
L1	1	200 μ H @ 100 kHz 2 Line Common Mode Choke Surface Mount 70mA DCR 4.8Ohm	200 μ H @ 100 KHz		1210 CMC	Murata Electronics	DLW32MH201XK2L	No	Yes
R1, R2	2	0 Ohm resistor	DNP		0603 RES			Yes	Yes
R3, R4	2	50 Ohms \pm 0.1% 0.125W, 1/8W Chip Resistor 0603 (1608 Metric) RF, High Frequency Thin Film	50	\pm 0.1%	0603 RES	Vishay Dale	FC0603E50R0BTB1	Yes	Yes
R5	1	10 kOhms \pm 5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) - Thick Film	10k	\pm 5%	0603 RES	Vishay Dale	RCG060310K0JNEA	Yes	Yes
R6	1	100 kOhms \pm 5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film	100k	\pm 5%	0603 RES	Vishay Dale	CRCW0603100KJNEA	Yes	Yes
R7, R8	2	0 Ohm resistor	0		0603 RES			Yes	Yes
R9, R10, R11	3	3.3 kOhms \pm 5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) - Thick Film	3.3k	\pm 5%	0603 RES	Vishay Dale 3.3 kOhms	CRCW06033K30JNEBC	Yes	Yes
R12	1	2 kOhms \pm 5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)	2k	\pm 5%	0603 RES	Vishay Dale	CRCW06032K00JNEB	Yes	Yes
S1	1	Tactile Switch SPST-NO Top Actuated Surface Mount	Reset		Tac Switch	E-Switch	TL3301AF160QG	Yes	Yes
TL1, TL2, TP1, TP2, TP3, TP7	1	PC Test Point, Miniature Phosphor Bronze Silver Plating 0.040" (1.02mm) Hole Diameter Mounting Type			Test Point	Keystone Electronics	5003	Yes	Yes
U1	1	onsemi 10Mbit/s Industrial Ethernet MAC + PHY IC Controller - 10Base-T1S	NCN26010		QFN32 / TQFP 32	onsemi	NCN26010XMNTXG or NCN26010XFBR2G	Yes	Yes
U2	1	onsemi Linear Voltage Regulator IC Positive Fixed 1 Output 150mA 5-TSOP	NCP730ASN250T1G		NCP730_TSOP	onsemi	NCP730ASN250T1G	Yes	Yes
Y1	1	25 MHz \pm 100ppm Crystal 6pF 150 Ohms 4-SMD, No Lead	XRCPB25M000F0Z00R0		XRCPB25M000F0Z00R0	Murata Electronics	XRCPB25M000F0Z00R0	Yes	Yes
Jumper	3	2 (1 x 2) Position Shunt Connector Black Closed Top 0.100" (2.54mm) Gold	Jumpers		none	Sullins Connector Solutions	SPC02SYAN	Yes	Yes
Standoff	4	Hex Standoff Threaded M3 Nylon 0.472" (12.00mm)	12mm standoff		none	Essentra Components	MTS-12	Yes	Yes
Screws	4	Würth Elektronik M3 Pan Head Machine Screw Phillips Drive Nylon	M3 Nylon		none	Würth Elektronik	97790603111	Yes	Yes

