

Document reference:	PCB reference: <b>X-NUCLEO-IDS01A4 (SPSGRF-868_Nucleo_Expansion board)</b>
Company: <b>STMicroelectronics</b>	

Item	Quantity	Reference	Part / Value	Voltage / Ampere/Ohm	Type / Additional Notes	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
1	1	CN5	Arduino Connector CN5 10 pins				Pass-Through: Male on Bottom, Female on Top. 10x1 2.54mm pitch	SAMTEC	SSQ-110-03-F-S
2	2	CN6,CN9	Arduino Connectors CN6 and CN9 8pins				Pass-Through: Male on Bottom, Female on Top. 8x1 2.54mm pitch	SAMTEC	SSQ-108-03-F-S
3	2	CN7,CN10	MORPHO Connectors CN7 and CN10 38pins		NOT MOUNTED		Pass-Through: Female on Bottom, Male on Top. 19x2 2.54mm pitch		
4	1	CN8	Arduino Connector CN8 6 pins				Pass-Through: Male on Bottom, Female on Top. 6x1 2.54mm pitch	SAMTEC	SSQ-106-03-G-S
5	1	C1	100nF	16V	Ceramic X7R	±10%	SMD 0402	Murata	GRM155R71C104KA88
6	1	J1	Jumper				Through Hole 2x1 2.54mm pitch	ANY	ANY
7	12	R1,R2,R3,R4, R5,R6,R7,R8, R9,R10,R14,R 15	0		R3,R5,R6,R7,R 8,R9,R10,R15 NOT MOUNTED	±1%	SMD 0805	ANY	ANY
8	1	R12	100k			±1%	SMD 0805	ANY	ANY

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9	1	R13	680			±1%	SMD 0805	ANY	ANY
10	1	D1	RED LED				SMD 0603	Vishay	TLMS1100-GS08
11	1	U1	SPSGRF-868				SMD 11 pins	ST	SPSGRF-868
12	1	U2	M95640-RMC6TG				UFDFPN8 2X3 mm (MLP8)	ST	M95640-RMC6TG