

CUSTOMER	MIT
PROJECT	2022-0630 (CITYSCANNER-EVO)
REVISION	
SCHEMATIC	20220630_CITYSCANNER-EVO_V3
DATA	07/07/2023
DRAFTED	M. Brevi
APPROVED	Nome Approved



Item	Quantity	Reference	Part	MPN	Description	Temperature	Distributor	Type	Package	Database
1	1	AN1T	NN02-220	NN02-220	ANTENNA CHIP LTE D=24X12X2 NN02-220 IGINION SMT	40° . +125°	M-128-NN02-220	SMD	ANT-NN02-220	
2	1	AN1T2	NN02-224	NN02-224	ANTENNA CHIP GNSS D=12X3X2.4 NN02-224 IGINION SMT	40° . +125°	M-128-NN02-224	SMD	ANT-NN02-224	
3	1	CS1	CS V3 4L 35um		C.S. CS-EVO V3 (120x120)mm HAL 4L/50/GR spr+1.6mm Cu-35um	TG140	WE-ONLINE			
4	36	C1,C7,C9,C10,C11,C24,C26,C27,C28,C30,C36,C44,C45,C46,C53,C54,C55,C62,C63,C64,C71,C73,C74,C75,C78,C87,C88,C90,C91,C93,C96,C99,C101,C103,C105,C106	100n50V		CHIP CAP CER 100nF 50V 10% X7R 0402	-55 . +125		SMD	CS-C-0402	
5	19	C2,C5,C9,C32,C41,C42,C43,C47,C48,C49,C50,C51,C52,C56,C57,C60,C61,C78,C80,C89	10u+10V+XSR		CHIP CAP CER 10uF 10V 10% XSR 0603		FAE	SMD	CS-C-0603	28168
6	1	C4	100k		CHIP RES 100K 0603 1/16W 1%		FAE	SMD	RS-0603	26646
7	1	C6	10n+1kV		CHIP CAP CER 10nF 1000V 10% X7R 1206		FAE	SMD	CS-C-1206	28470
8	1	C8	10n50V		CHIP CAP CER 10nF 50V 10% X7R 0402		FAE	SMD	CS-C-0402	21365
9	2	C21,C23	220n+16V		CHIP CAP ELETTR 220uF 16V 20% CASE D=6.3x8		FAE	SMD	CS-E-D	15190
10	6	C31,C34,C35,C72,C86,C97	1u+16V		CHIP CAP CER 1uF 16V 10% X7R 0603		FAE	SMD	CS-C-0603	20891
11	1	C38	22p50V+NPO		CHIP CAP CER 22pF 50V 5% NPO 0402		FAE	SMD	CS-C-0402	27825
12	2	C39,C40	33p+50V-COG		CHIP CAP CER 33pF 50V 5% NPO 0402	-55° . +125°	FAE	SMD	CS-C-0402	28119
13	1	C81	2.4p+100V-COG	GLM1555C1H2R4W801D	CHIP CAP CER 2.4pF 100V 0.1pF COG 0402	-55° . +125°	FAE	SMD	CS-C-0402	29699
14	1	C82	1.2p50V-COG	GLM1555C1H1R2W801	CHIP CAP CER 1.2pF 50V +0.05pF COG 0402	-55° . +125°	FAE	SMD	CS-C-0402	
15	1	C83	0.4p50V-COG	GLM1555C1H404W801	CHIP CAP CER 0.4pF 50V +0.05pF COG 0402	-55° . +125°	FAE	SMD	CS-C-0402	42804
16	1	C85	330mF/3.3V	DSK-3R3H334T+H	COND SUPERCAP 330mF 3.3V 20% +80% DSK-3R3H334T+H D=6.8x6.8 SMT	-10° . +60°	FAE	SMD	CS-SCAP-DSK	48722
17	1	C102	1n+50V		CHIP CAP CER 1nF 50V 10% X7R 0402		FAE	SMD	CS-C-0402	33357
18	1	C104	0.9p50V-COG	GLM1555C1H800W801D	CHIP CAP CER 0.9pF 50V +0.05pF COG 0402	-55° . +125°	FAE	SMD	CS-C-0402	
19	1	DSW1	DP-SW-MCQHN-04F-T-V		DIP SWITCH 4P/D NERO MCQHN-04F-V MULTICOMP SMT		FAE	SMD	DSS-4-0127-MCQHN	31346
20	6	DS2,DS4,DS8,DS9,DS10,DS11	BAT54J	BAT54J.115	DICOD SCHOTTKY 0.3A 40V BAT54J SOD-323 SMT		FAE	SMD	SOD323	34244
21	1	DS7	SS34	SS34	DICOD SCHOTTKY 3A 40V SS34 DO-214AB SMT	-55° . +125°	FAE	SMD	SMC	25363
22	2	DZ2,D25	MMSZ5226BT1G	MMSZ5226BT1G	DICOD ZENER 0.5W 3.3V MMSZ5226BT1G ONSEMI SOD123 SMT		M-863-MMSZ5226BT1G	SMD	SOD123	
23	2	DZ6,DZ7	MMSZ5221BT1G	MMSZ5221BT1G	DICOD ZENER 0.5W 2.4V MMSZ5221BT1G ONSEMI SOD123 SMT	-55° C . +150° C	M-863-MMSZ5221BT1G	SMD	SOD123	
24	1	F1	0154005-DR	0154005-DR	FUS +PORTAFUS SA RAPIDO 0154005-DR LITTELFUSE SMT	-55° . +125°	FAE	SMD	F-LT154	39312
25	1	J2	54-00125	54-00125	PRESA JACK DC 3.5-1.1 . TENSILITY - 54-00125	-25° C . +85° C	D-638-1508-ND	THT	J-54-00125	
26	1	J5	53261-0571	0532610571	CONN. PICOBLADE SP M90° P=1.25 53261-0571 MOLEX SMT		FAE	SMD	J-5-0125-MOS-PICOBLADE	24686
27	1	J6	DX075024WJ3R400	DX075024WJ3R400	CONN. USB 3.0 F/D TIPO C.S. DX075024WJ3R400 JAE ELECTRONICS	30° . +80°	FAE	SMD	J-24-0050-FDS-USBC-DX07	45706
28	1	J7	878322014	878322014	HEADER 20P M DOPIA FLO P=2.00 878322014 MOLEX SMD	-55 . 105	M-638-87832-2014	SMD	J-10X2-0200-MDS-878322014	
29	1	J12	MDT420E01001	MDT420E01001	CONN. M 2 75P M90° Ph0.5 MDT420E01001 AMPHENOL SMT	40° . +80°	FAE	SMD	J-75-0050-MOS-M2-E	44633
30	1	J13	USD - 502774-0891	5027740891	CONN. MICROSD 8P F90° PUSH+PUSH 502774-0891 MOLEX SMT	-25° . +85°	FAE	SMD	J-8-0110-FDS-SD-M502774	39314
31	1	J15	UFL-R-SMT-1-10	UFL-R-SMT-1(10)	CONN. RF M UFL-R-SMT-1(10) HIROSE SMT	40° . +90°	FAE	SMD	J-3-MDS-UFL	28096
32	1	J01	GENERICD		DICOD LED ROSSO 0603 SMT		FAE	SMD	LD-0603	15407
33	1	J02	SMIL-LJ0404SMLXPOUSB	SMIL-LJ0404SMLXPOUSB	DICOD LED ROSS SMIL-LJ0404SMLXPOUSB LUMEX SMT		FAE	SMD	LD-0404-SMLX	37708
34	6	L1,L2,L3,L5,L6,L9	BLM21PG2215N1D	BLM21PG2215N1D	FILTRO 220R 2A 25% 0805 BLM21PG2215N1D MURATA SMT	-55° . +125°	FAE	SMD	LS-0805	20590
35	1	L7	XAL4030-682ME	XAL4030-682ME	INDUTTANZA 6.8 uH 1.5A 20% 4X4 XAL4030-682ME COL-CRAFT SMT	40° . +125°	M-984-XAL4030-682ME	SMD	LS-XAL40	
36	1	L8	XAL4020-102MEB	XAL4020-102MEB	INDUTTANZA 1uH 8.7A 20% D=4.3x4.3 XAL4020-102ME COL-CRAFT SMT	40° . +125°	M-984-XAL4020-102MEB	SMD	LS-XAL40	
37	1	L10	LQW15AN2N3G80D	LQW15AN2N3G80D	INDUTTANZA 1.3nH 3.15A +0.2nH 0402 LQW15AN2N3G80D MURATA SMT	-55° . +125°		SMD	LS-0402	
38	16	R2,R8,L11,R102,R128,R131,R132,R134,R139,R141,R149,R179,R184,R224,R251,R252	DR		CHIP RES. (R 0402) 1/16W 1%		FAE	SMD	RS-0402	25681
39	1	L12	LQW18AN8N7G80D	LQW18AN8N7G80D	INDUTTANZA 8.7nH 1.6A 2% 0603 LQW18AN8N7G80D MURATA SMT	-55° . +125°		SMD	LS-0603	
40	1	L13	LQW15AN14NG80D	LQW15AN14NG80D	INDUTTANZA 14nH 1.15A 2% A FLO 0402 SMT	-55° . +125°	M-81-LQW15AN14NG80D	SMD	LS-0402	
41	1	L14	LQW18AN7N2G80D	LQW18AN7N2G80D	INDUTTANZA 7.2nH 1.9A 2% 0603 LQW18AN7N2G80D MURATA SMT	-55° . +125°		SMD	LS-0603	
42	1	L16	LQW18AN6N0G80D	LQW18AN6N0G80D	INDUTTANZA 6nH 1.9A 2% 0603 LQW18AN6N0G80D MURATA SMT	-55° . +125°		SMD	LS-0603	
43	1	L17	LQW15AN7N5H00D	LQW15AN7N5H00D	INDUTTANZA 7.5nH 0.57A 3% A FLO 0402 LQW15AN7N5H00D MURATA SMT	-55° . +125°	FAE	SMD	LS-0402	43079
44	1	L18	LQW15AN3N0G80D	LQW15AN3N0G80D	INDUTTANZA 3.3nH 1.95A 2% 0402 LQW15AN3N0G80D MURATA SMT	-55° . +125°		SMD	LS-0402	
45	1	L19	LQW18AN3N0G80D	LQW18AN3N0G80D	INDUTTANZA 3nH 0.91A 2% 0603 LQW18AN3N0G80D MURATA SMT	-55° . +125°		SMD	LS-0603	
46	1	L20	LQW18AN3N3G80D	LQW18AN3N3G80D	INDUTTANZA 3.3nH 1.1A 2% 0603 LQW18AN3N3G80D MURATA SMT	-55° . +125°		SMD	LS-0603	
47	1	L21	LQW15AN1N3C80D	LQW15AN1N3C80D	INDUTTANZA 1.3nH 3.15A +0.2nH 0402 LQW15AN1N3C80D MURATA SMT	-55° . +125°		SMD	LS-0402	
48	1	MOD1	NEO-MBU-06B	NEO-MBU-06B	MODULO GPS NEO-MBU-06B U-BLOX SMT	40° . +85°	FAE	SMD	MOD-NEO-MBU	50104
49	2	PB1,PB2	FSM14JSMAS		TASTO 24V 0.05A 606 SPST FSM14JSMAS TE SMT	40 . +85	D-450-2161-ND	SMD	PB-FSM14JUS	
50	7	Q1,Q2,Q6,Q7,Q13,Q17,Q18	SISS27DM-T1-GE3		TRANSISTOR MOSFET P SISS27DM-T1-GE3 POWERPACK-1212-85 SMT	-55° . +150°	FAE	SMD	POWERVDFNM-0330X0330	41716
51	7	Q3,Q4,Q9,Q10,Q15,Q23,Q25	BC817-25		TRANSISTOR NPN BC817-25 SOT-23 SMT		FAE	SMD	SOT23	15414
52	5	Q6,Q14,Q16,Q19,Q20	BSS138		TRANSISTOR MOSFET N BSS138 SOT-23 SMT		FAE	SMD	SOT23	17269
53	3	Q8,Q22,Q24	BSS84		TRANSISTOR MOSFET P BSS84 215 SOT-23 SMT	-55° . +150°	FAE	SMD	SOT23	28241
54	36	R1,R7,R17,R64,R90,R94,R108,R109,R116,R118,R119,R120,R123,R133,R143,R145,R146,R153,R154,R171,R172,R173,R181,R183,R185,R186,R187,R188,R208,R213,R216,R217,R219,R232,R236,R243	100k		CHIP RES. 100K 0402 1/16W 1%		FAE	SMD	RS-0402	25127
55	21	R3,R10,R63,R66,R71,R72,R73,R81,R105,R114,R115,R122,R127,R135,R144,R211,R212,R233,R235,R239,R254	10k		CHIP RES. 10K 0402 1/16W 1%	-55° . +125°	FAE	SMD	RS-0402	25129
56	6	R5,R17,R38,R70,R210,R234,R242	1k		CHIP RES. 1K 0402 1/16W 1%	-55° . +155°	FAE	SMD	RS-0402	25126
57	15	R6,R17,R68,R89,R111,R113,R124,R125,R126,R177,R178,R197,R206,R225,R230	100R		CHIP RES. 100R 0402 1/16W 1%		FAE	SMD	RS-0402	26315
58	2	R14,R16	5.1k		CHIP RES. 5K1 0402 1/16W 1%	-55° . +155°	FAE	SMD	RS-0402	46041
59	1	R15	1M		CHIP RES. 1M 1206 1/4W 1%		FAE	SMD	RS-1206	39104
60	21	R18,R19,R20,R21,R22,R23,R24,R25,R26,R27,R28,R29,R168,R169,R170,R174,R175,R202,R209,R225,R231	33R		CHIP RES. 33R 0402 1/16W 1% 100PPM/C		FAE	SMD	RS-0402	38764
61	2	R66,R68	UR04		CHIP RES. (R04) 1206 1/4W 1%		FAE	SMD	RS-1206	38917
62	3	R67,R69,R136	470R		CHIP RES. 470R 0402 1/16W 1%		FAE	SMD	RS-0402	25128
63	5	R70,R76,R82,R83,R84	22k		CHIP RES. 22K 0402 1/16W 1%		FAE	SMD	RS-0402	39666
64	3	R74,R75,R76	10R		CHIP RES. 10R 0603 1/16W 1%		FAE	SMD	RS-0603	16149
65	1	R85	330R		CHIP RES. 330R 0402 1/16W 1%		FAE	SMD	RS-0402	26311
66	2	R86,R101	39.2k		CHIP RES. 39K2 0402 1/16W 1%	-55° . +155°	FAE	SMD	RS-0402	40438
67	2	R89,R99	DR		CHIP RES. (R 0605) 1/8W 1%		FAE	SMD	RS-0605	27410
68	1	R103	12.4k		CHIP RES. 12K4 0402 1/16W 1% 100PPM/C		FAE	SMD	RS-0402	33444
69	1	R104	13k		CHIP RES. 13K 0402 1/16W 1%	-55° . +125°	FAE	SMD	RS-0402	28703
70	3	R121,R126,R189	2.2k		CHIP RES. 2K2 0402 1/16W 1%		FAE	SMD	RS-0402	35095
71	7	R158,R159,R160,R161,R162,R163,R164	47k		CHIP RES. 47K 0402 1/16W 1% 100PPM/C		FAE	SMD	RS-0402	33460
72	1	R176	270R		CHIP RES. 270R 0402 1/16W 1%	-55° . +125°	FAE	SMD	RS-0402	40388
73	2	R236,R257	12k		CHIP RES. 12K 0402 1/16W 1%		FAE	SMD	RS-0402	39722
74	1	SW1	FS22ABP	FS22ABP	INTERR. SLITTA ON-ON DA C.S. DPOT FS22ABP E-SWITCH	-30° . +85°	FAE	THT	SW-FS22ABP	
75	1	TVS1	SMUJ10CA		DICOD TVS TRANSIL. BDR. 600W 10V SMUJ10CA SMB SMT		FAE	SMD	SMB	24721
76	9	TVS2,TVS4,TVS5,TVS8,TVS10,TVS12,TVS13,TVS14	NSPUJ051N2T5G		DICOD TVS TRANSIL. UNDR. 5.5V NSPUJ051N2T5G X2DFN SMT	-65° . +150°	D-NSPUJ051N2T5GSCOT-40	SMD	D-XDFN2	
77	1	TVS3	ESDR0502NMUTBG		INTEGRATO ESDR0502NMUTBG ONSEMI UFDFN6 SMT	40° . +125°	FAE	SMD	UFDFN6	40789
78	3	TVS7,TVS11,TVS15	DV0F9BLP3810-7		INTEGRATO SIGNAL PROTECTION DV3F9BLP3810-7 DIODES UDFN3810-9 SMT	-55° . +85°	M-621-33V3F9BLP3810-7	SMD	UDFN3810-9	
79	1	U3	8244210D0CT		INTEGRATO 8244210D0CT W50N0 TEXAS SMT	40° . +85°	FAE	SMD	W50N0-EXP	47785
80	1	U4	SL28022FLZ-T7A		INTEGRATO SL28022FLZ-T7A INTERSL. M20P10 SMT	-40° . +125°	FAE	SMD	M20P10	35960
81	1	U5	SL91107IAZ		INTEGRATO DC DC CONVERTER SL91107IAZ RENESAS UFBGA15 SMT	40° . +85°	M-968-SL91107IAZ-T7A	SMD	UFBGA15-9151X0215	
82	1	U6	LMR62014MXFX	LMR62014MXFX	INTEGRATO DC/DC CONVERTER LMR62014MXFX TI SOT-23-5 SMT	40° . +125°	M-926-LMR62014MXFXCOPB	SMD	SOT23-5	
83	1	U7	TPS3823-330BV	TPS3823-330BV	INTEGRATO TPS3823-330BV7 SOT23-5 SMT	40° C. 85° C	FAE	SMD	SOT23-5	24637
84	2	U11,U15	74LV4069PW	74LV4069PW	INTEGRATO SWITCH 74LV4069PW NXP TSSOP14 SMT	40° C. 125° C	M-177-LV4069PW118	SMD	TSSOP14	
85	1	U12	KXTJ3-1057		INTEGRATO SENSOR KXTJ3-1057 KONIG K412 SMT	40° . +85°	M-912-KXTJ3-1057	SMD	VFLG412	
86	1	U14	SHTC3		SENSOR D TEMPERATURA E UMIDITA SHTC3 SENSIRON SMT	40° . +125°	M-403-SHTC3	SMD	SENS-SHTC3	
87	1	U16	BGA725L6E6327F7SA1	BGA725L6E6327F7SA1	INTEGRATO BGA725L6E6327F7SA1 INFINEON TSLP-6 SMT	40° . +125°	FAE	SMD	XDFN6	43081

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MECHANICAL

1	1	ASS1	B404x	B404x	SOM B404x Particle	20° . 85°		THT		
2	1	ASS2	KN08 M2 5x4-INOX		VITE TCEI 2.5x4 ESAGONO INCASSATO A2 INOX		FAE	THT		48266
3	1	CBU1	9774025151R		DISTANZ. CL. METALLO 5.1X2.5 9774025151R W E SMT		FAE	SMD	DIST-WASMISM0250	44635

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NOT MOUNTED

1	1	C3	NU		CHIP CAP CER 10uF 10V 10% XSR 0603		FAE	SMD	CS-C-0603	28168
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