



Title		
Size	Number	Revision
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Date:	6/19/2015	Sheet of
File:	C:\Giv...Level Translator Rev 1 SchDoc Drawn By:	

Comment	Description	Designator	Footprint	LibRef	Quantity
CAP - C105X7R1H104K	MultiLayer Ceramic Capacitors MLCCC RADIODIAT 0.1uF 50volts X7R 20%	C1, C3, CR, C9, C10, C11, C12, C78, C80, C84, C86	D402	CAP - C105X7R1H104K	11
CAP - L2063A600FAT2A	MultiLayer Ceramic Capacitors MLCCC RADIODIAT 2volts 40pF 1% COG	C2	C1206	CAP - L2063A600FAT2A	1
CAP - C0603C102J8GACTU	CAP CER 1000PF 25V 1% NP0 0603	C4, C6, C16, C18, C71, C74, C75, C77, C81, C83	0603	CAP - C0603C102J8GACTU	10
CAP - 0402SC103KAT2A	MultiLayer Ceramic Capacitors MLCCC RADIODIAT 50volts 0.01uF 20% X7R	C5, C7, C15, C17, C70, C73, C76, C79, C82, C85	D402	CAP - 0402SC103KAT2A	10
CAP - 0402SC103KAT2A	MultiLayer Ceramic Capacitors MLCCC RADIODIAT 50V 40% X7R 0805	C13	0805	CAP - 0402SC103KAT2A	1
CAP - C2320X7R1E10K150A0	MultiLayer Ceramic Capacitors MLCCC RADIODIAT 10uF 10% 25volts	C14, C19	L206	CAP - C2320X7R1E10K150A0	2
CAP - C2320X7R1E10K150A0	CAP CER 10uF 8.2V 20% 25volts	C20, C25, C27	0805	CAP - C2320X7R1E10K150A0	3
CAP - 00807S220G4V4T	CAP CER 22PF 25V 2% NP0 0402	C74, C69, C28	D402	CAP - 00807S220G4V4T	3
CAP - C3225X7R1E13M140A	MultiLayer Ceramic Capacitors CAP CER 22uF 25V 20% X5R 1206	C22	L206	CAP - C3225X7R1E13M140A	1
CAP - C121818WCOQNNNE	CAP CER 100 10V 20% X7R 0805	C23	0805	CAP - C121818WCOQNNNE	1
CAP - C3012X7R1A475M	CAP CER 4.7uF 20V 20% X7R 0805	C24	0805	CAP - C3012X7R1A475M	1
CAP - C1005X7RA2405080B	CAP CER 0.22uF 10V 20% X7R 0402	C28, C38	D402	CAP - C1005X7RA2405080B	2
4PFI910M2B	CAP 100UF 100UF 4V 20% 1411	C11, C35, C41, C45, C46, C50, C52	1411 (32B)	4PFI910M2B	7
C1005X7R050475M0508	CAP CER 4.7uF 4V 20% X5R 0402	C42, C35, C42, C48, C51, C52, C53, C49	D402	C1005X7R050475M0508	8
C0603650G047M0308	CAP CER 0.47uF 4V 20% X5R 0603	C38, C43, C44, C46, C47, C54, C55, C56, C57, C58, C59, C63, C54, C55, C56	0201	C0603650G047M0308	10
CGATE137R0225D080A	CAP CER 2.2uF 6.3V 20% X7R 0603	C40, C67, C68	0603	CGATE137R0225D080A	3
C105X7R1H104K	MultiLayer Ceramic Capacitors MLCCC RADIODIAT 0.1uF 50volts X7R 20%	C63	D402	C105X7R1H104K	1
0M0YC103KAT2A	MultiLayer Ceramic Capacitors MLCCC RADIODIAT 0.1uF 50volts X7R 20%	C68, C72	D402	CAP - 0M0YC103KAT2A	2
DIODE - 1N4148WS	SWTNG 75V 0.15A 1.8V 500 123F	D1	SOD-323F	DIODE - 1N4148WS	1
LED - SM1328C4778	LED 660NM BLUE WVR 1.8 0603 SMD	D2	SM1328C4778	LED - SM1328C4778	1
TPH	Chip Bezel Indicator for Power Lines (P Series, M type)	E1, E2, E3	TPH	TPH	3
FBI3224H5800	RF Connectors / Coaxial Connectors PCB RIGHT ANGLE JACK	F81	L206	FBI3224H5800	1
CON - 221790-1	Power Inductors SMD POWER AEC-Q200 0.47uH 30%	L1, L2, L4	NRH30127847NW	CON - 221790-1	2
IND - NH50127847NW	Inductor Power Inductor 0.47uH 30%	L1, L5, L6	NH50127847NW	IND - NH50127847NW	3
MUP201618M7D51	Through Hole RESISTOR SQ Post Header 3 Pin	P1, P2	Header 3Pin_10T	MUP201618M7D51	2
HDR - TSW-103-06-S-5	Header Header 3 Pin Connector	P3	07832-1420	HDR - TSW-103-06-S-5	1
CON - 87832-1420	CONN D SUB HDRP 20POS 0.8x 5.0x 2.5mm	P4	DB-25	CON - 87832-1420	1
CON - 5747846-4	MOSFET N-CH 20V 1.5A 50T3	D3	50T3-3	CON - 5747846-4	1
TRANG - NDC5131N	Description: Thick Film Resistors - SMD 1/2Watt 5% 10ohms 1%	R1, R2	D402	RES - R873H1ETTP2R3F	2
RES - R873H1ETTP2R3F	Thick Film Resistors - SMD 1/2Watt 5% 10ohms 1%	R3, R8, R12	D402	RES - R873H1ETTP490F	3
RES - R873H1ETTP490F	Thin Film Resistors - SMD 240Ohm 0.603 1%, 25ppm @ 25C	R4	0603	RES - R873H1ETTP0185D	1
RES - R873H1ETTP0185D	Thin Film Resistors - SMD 1.85kOhm 0.603 1%, 25ppm @ 25C	R5, R7	0603 IPC	RES - R873H1ETD000825	2
RES - R873H1ETD000825	Thin Film Resistors - SMD 1.6K Ohm 0.603 1%	R6	D402	RES - R873H1ETTP1401F	1
RES - R873H1ETTP1401F	THICKFILM 200 OHM 0.25W SMD	R9	3269W	1269W-1-201GUF	1
1269W-1-201GUF	Thin Film Resistors - SMD 1/7W 100 Ohm 1%	R10, R29, R30, R35, R36	D402	RES - R873H1FTBL2000F	6
RES - R873H1FTBL2000F	Thin Film Resistors - SMD 140Ohm 0.603 2.0 1%, 25ppm @ 25C	R11, R32	D402	RES - R873H1ETTP001825	2
RES - R873H1ETTP001825	Thin Film Resistors - SMD 1.82kOhm 0.603 1%	R13, R41, R42	0603	CRWC6031508PVEA	3
CRWC6031508PVEA	Thin Film Resistors - SMD 1.25W 300ohm 1% 20ppm	R14, R16	0805	RES - 5C739ATD0-3000F	2
RES - 5C739ATD0-3000F	Thin Film Resistors - SMD 200ohm 1% 20ppm	R15	0805	RES - 5C739ATD1-880F	1
RES - 5C739ATD1-880F	Thin Film Resistors - SMD 180Ohm 0.603 1%, 25ppm @ 25C	R17	0603 IPC	RES - R873H1JTD1803B25	1
RES - R873H1JTD1803B25	Thin Film Resistors - SMD 40kOhms 1% 25ppm	R18	0603 IPC	RES - TNPW0614K08EEA	1
RES - TNPW0614K08EEA	Thin Film Resistors - SMD 40kOhms 1% 25ppm	R19, R20, R21	0603 IPC	RES - R873H1JTD4993F	3
RES - R873H1JTD4993F	Thin Film Resistors - SMD 200 220kOhm 0.1% 25ppm	R22, R23	0603 IPC	RES - ERA-3AEB226V	2
RES - ERA-3AEB226V	Thin Film Resistors - SMD 200 220kOhm 0.1% 25ppm	R24	0603 IPC	RES - ERA-3AEB1313V	1
RES - ERA-3AEB1313V	Thin Film Resistors - SMD 130kOhm 0.1% 25ppm	R25	0603 IPC	RES - R873H1JTD004825	1
RES - R873H1JTD004825	Thin Film Resistors - SMD 1.2kOhm 1% 25ppm	R26, R27, R28, R39	D402	RES - R873H1ETTP4702F	4
RES - R873H1ETTP4702F	Thin Film Resistors - SMD 1.7W 1.82K Ohm 1%	R31, R34	D402	RES - R873H1FTBL1321F	2
RES - R873H1FTBL1321F	Thin Film Resistors - SMD 1.82kOhm 1% 25ppm	R33, R40	D402	R873H1ETTP4702F	2
R873H1ETTP4702F	Thin Film Resistors - SMD 1.25W 300ohm 1% 20ppm	R37	0603	RES - RG1608P-222-B-TS	1
RES - RG1608P-222-B-TS	Thin Film Resistors - SMD 1.25W 300ohm 1% 20ppm	R38	0603	RES - TNPW0612R08EEA	1
RES - TNPW0612R08EEA	Thin Film Resistors - SMD 120kOhms 1% 25ppm	R43, R44	D402	R8732LETPP	2
R8732LETPP	Circuit Board Hardware PCB DIP Single Level	TP1, TP2, TP9, TP4	1532-1	1532-1	4
Term - 1532-1	150V, +/- Operational Amplifiers with Programmable Supply Current	U1	SE Narrow	IC - LT18165B	1
IC - LT18165B	Low Pass Filter 50 Ohm DC to 20 MHz	U2, U4	PIP-224+	PIP-224+	2
PIP-224+	16-Bit, 50MSPS DAC	U3	SSOP-28	IC - LTC1658	1
IC - LTC1658	Triple 855mA Opamplifiers Snap-Down Resistor 2.20kOhm	U5	QFN-16 3mm x 3mm	IC - LTC3545-1	1
IC - LTC3545-1	PSA Spartan 6-E LX Family 3840 Cells 45nm CMOS Technology	U6	BGA196	KCS16A-2CP196C	1
KCS16A-2CP196C	IC (LX4K1400B)	U7	SOD-C 208MM	IC - W25Q40FV53G	1
IC - W25Q40FV53G	10MHC 850C	U8	SOD-C 208-25	FMD-HC7368-25	1
FMD-HC7368-25	10MHC 850C	U9	SOD-C 8	IC - MAC106B121DG	1
IC - MAC106B121DG	Octal Bus Transceiver	U10, U11	TSOP-24	IC - SMT4NVC2464-EP	2
IC - SMT4NVC2464-EP					