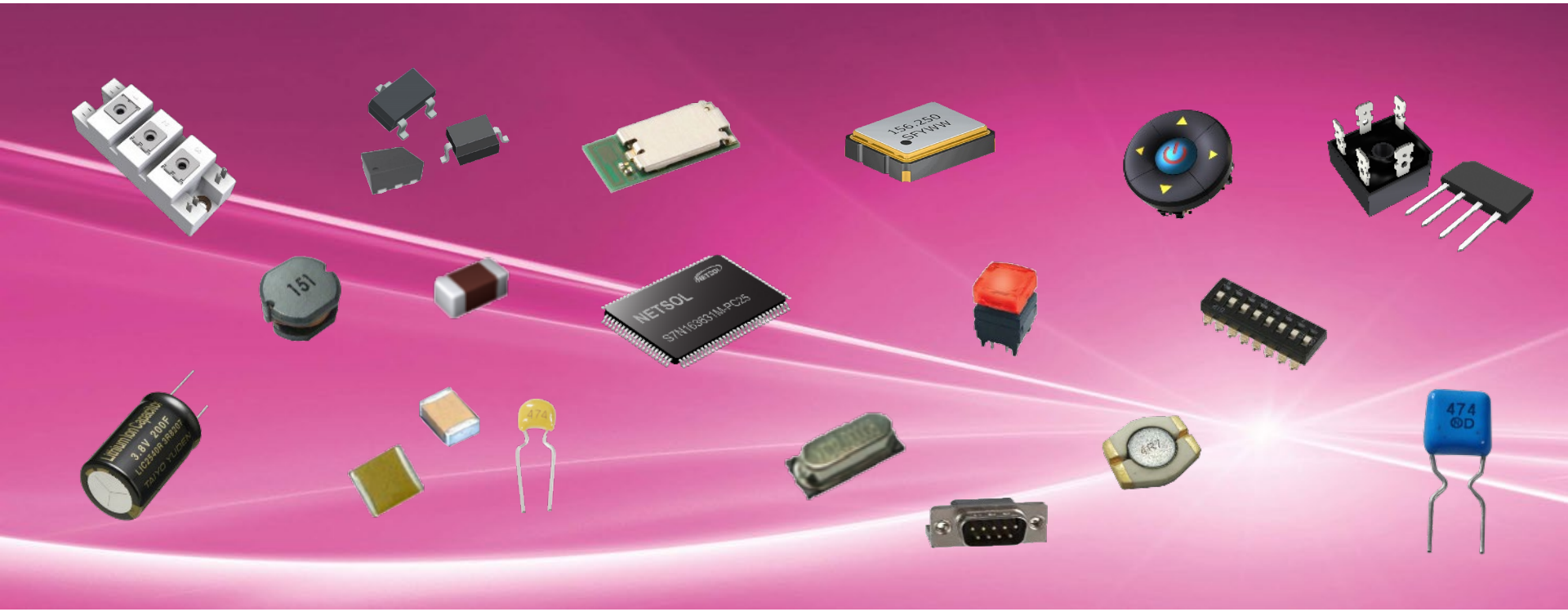
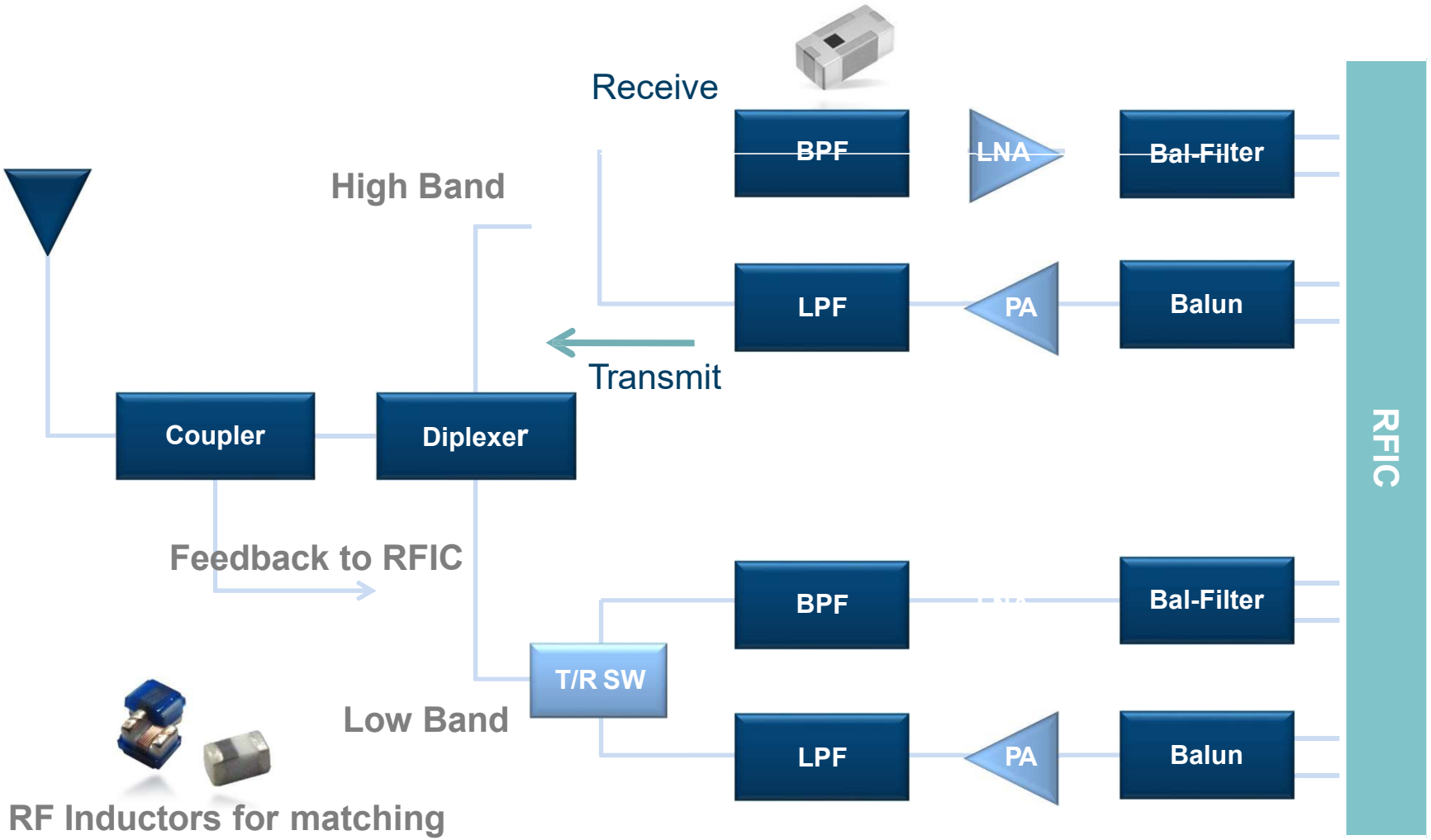
LTCC



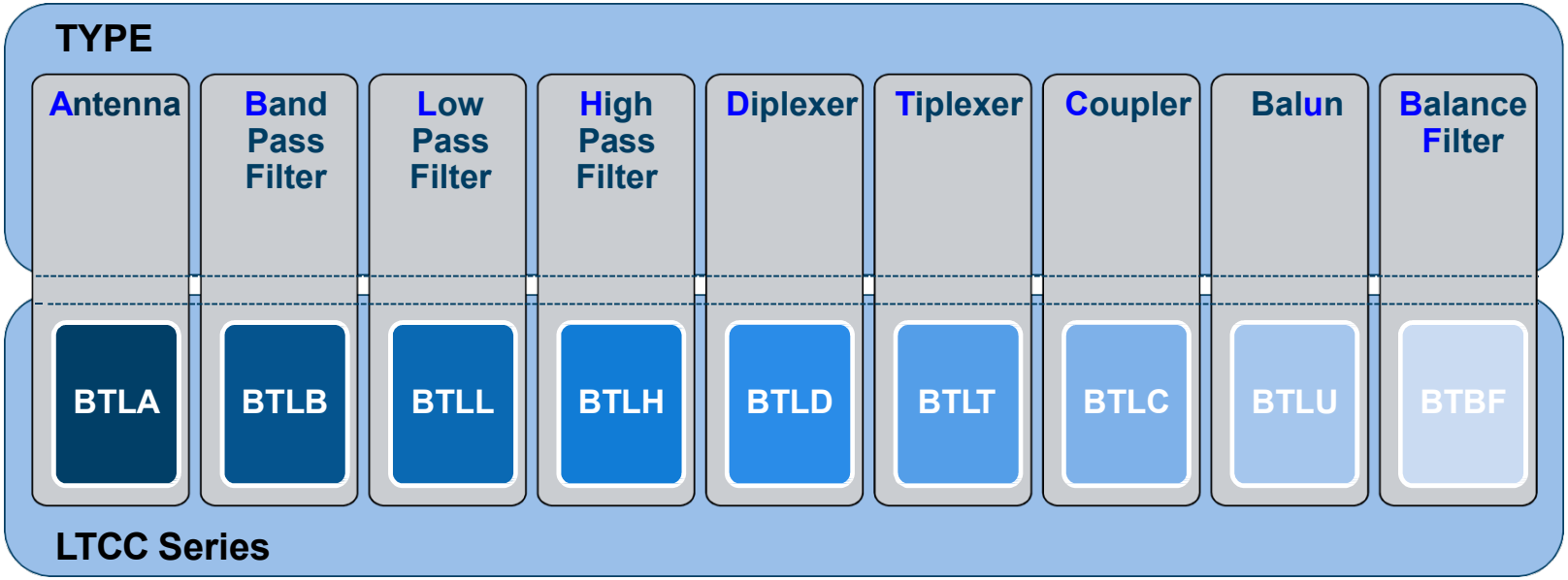
Chilisin

15.10.2020

RF System - Block Diagram



LTCC Component Series



B T L U	0 0	1 0 0 5	# # # x x	A 1	0
①	②	③	④	⑤	⑥

① Product Code
② Customer Code
③ Dimension Code
④ Series Type (### represents center frequency and xx represents material type)
⑤ Design Code
⑥ Version Code

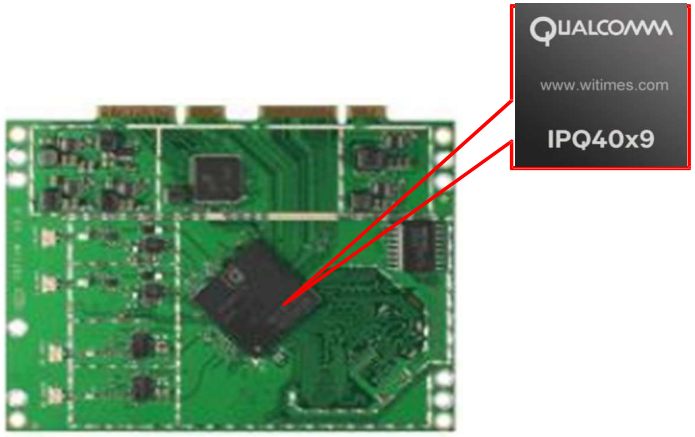
LTCC Components - Product Line

Item	0.433~ 0.915 GHz	0.7~0.9 GHz	1.125~ 1.675 GHz	1.575 GHz	1.71~2 .0 GHz	2.4~2.5 GHz	2.3~2.7 GHz	3.3~3.8 GHz	4.9~5.95 GHz
Application	LoRa	GSM Sub-GHz LTE NB-IoT	MoCA	GPS	GSM LTE NB-IoT	Wi Fi BT	LTE WiMAX	Sub-6GHz WiMAX	WiFi
LPF	◎	◎			◎	◎	◎	◎	◎
BPF		◎	◎		◎	◎	◎		◎
HPF					◎	◎			◎
Balun	◎	◎			◎	◎	◎	◎	◎
Coupler		◎			◎	◎	◎	◎	◎
Balance Filter						◎		◎	◎
Diplexer		◎		◎	◎	◎			◎
Triplexer				◎		◎			◎

LTCC - Product Overview

Photo	Series	Dimensions(mm)			Pass Band Frequency (MHz)	Application	SPQ (Reel)
		L	W	T			
Low Pass Filter	BTLL_100504	1	0.5	0.4	420~450, 824~915, 1710~2025, 2400~2500	WiFi/ BT/ LTE/ LoRa	10,000
	BTLL_160806	1.6	0.8	0.6	824~960, 1710~1990, 673~2690, 2300~2690, 2400~2500, 3300~3800, 4900~5950	WiFi/ BT/ LTE	4,000
	BTLL_201209	2	1.25	0.9	902-928, 2300~2700, 4900~5950	WiFi/ BT/ LTE	4,000
Band Pass Filter	BTLB_100505	1	0.5	0.4	2400~2500, 4900~5950	WiFi/ BT	10,000
	BTLB_160806	1.6	0.8	0.6	2400~2500, 2500~2700, 3300~3900, 4900~5950	WiFi/ BT/ LTE	4,000
	BTLB_201209	2	1.25	0.9	2400~2500, 2500~2700, 3300~3900, 4900~5950	WiFi/ BT/ LTE	4,000
Diplexer	BTLD_160806	1.6	0.8	0.6	700~960/1710~2690, 2400~2500/4900~5950	WiFi/ BT/ LTE	4,000
	BTLD_201209	2	1.25	0.9	700~960/1710~2690, 2400~2500/4900~5950	WiFi/ BT/ LTE	4,000
Balun	BTLU_060504	0.65	0.5	0.4	729~960, 1805~2170, 2300~2700	WiFi/ BT/ LTE	10,000
	BTLU_100504	1	0.5	0.4	1805~2170, 2300~2700, 2400~2500, 4900~5950	WiFi/ BT/ LTE	10,000
	BTLU_160806	1.6	0.8	0.6	1710~2170, 2400~2500, 2300~2700, 3300~3800, 4900~5950	WiFi/ BT/ LTE	4,000
	BTLU_201209	2	1.25	0.9	350~950	LoRa	4,000
Coupler	BTLC_060502	0.65	0.5	0.25	2400~2500/4900~5950	WiFi/ BT	10,000
	BTLC_100504	1	0.5	0.4	2400~2500/4900~5950	WiFi/ BT	10,000
	BTLC_160806	1.6	0.8	0.6	700~2690, 824~2100, 2400~2500	WiFi/ BT/ LTE	4,000

Qualcomm Router Platform

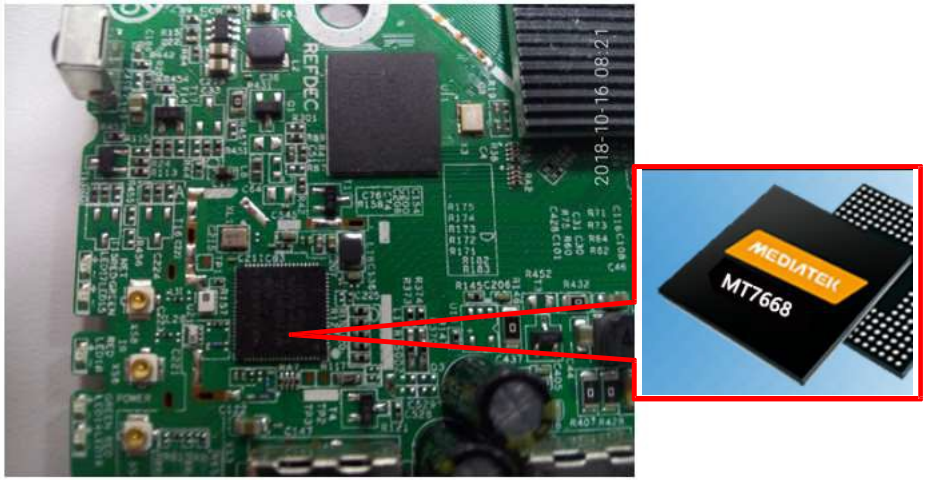


Design House	Chipset	Chilisin P/N	Competitor P/N
QCA	IPQ40X8 IPQ40X9	BTLD0016082G4S3AG0	LFD182G45DCJD247 8-pin
		BTLD0016082G4S3AH0	LFD182G45DCHD277 8-pin
		BTLD0016082G4S3YE0	RFDIP1606L51T
		BTLD0016082G4S3YF0	RFDIP1606L52T
		BTLC00060525GS1A10	TFSC06054125-2120A1
		BTLB0016085G5H6A80	RFBPF1608060K68Q1C
		BTLB0014112G4H6A30	DEA142450BT-3024A1
		BTLB0020122G4H6AR0	RBBPF2010A108Q1C

Qualcomm Router Platform

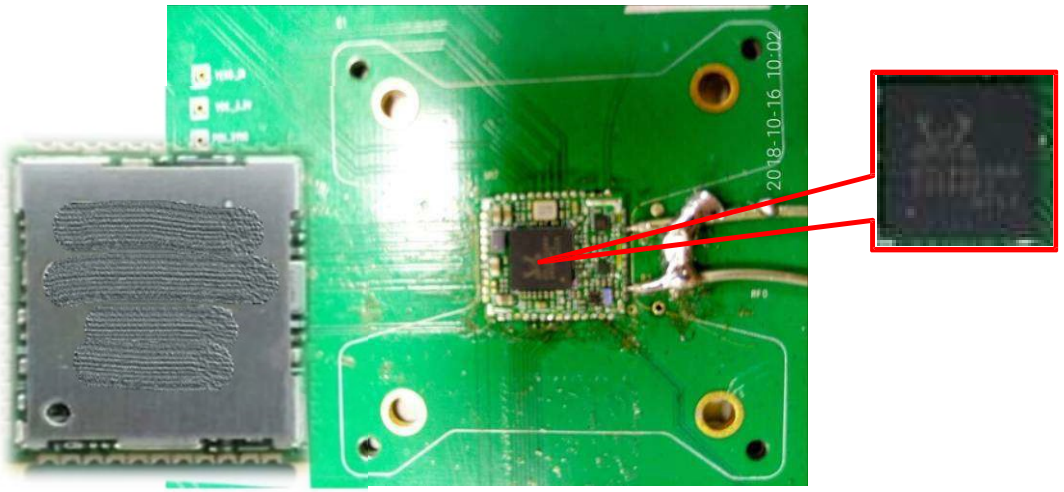
Design House	Chipset	Chilisin P/N	Competitor P/N
QCA	QCA9896 QCN5054 QCN5024	BTLD0016082G4S3YE0	RFDIP1606L51T
		BTLD0016082G4S3YF0	RFDIP1606L52T
		BTLB0016085G5H6A00	LFB185G37CF2D114
		BTLB0014112G4H6A30	DEA142450BT-3024A1
		BTLC00060525GS1A10	TFSC06054125-2120A1
		BTLB0016085G5H6A80	RFBPF1608060K68Q1C
		BTLB0020122G4H6AR0	RBBPF2010A108Q1C
		BTLL0016082G4S1A10	

MTK Platform



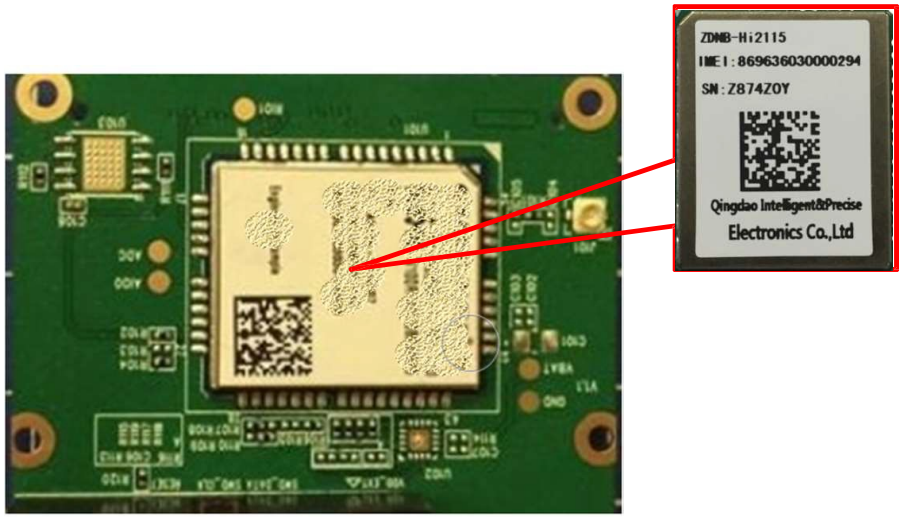
Design House	Chipset	Chilisin P/N	Competitor P/N
MTK	MT7662U	BTLD0016082G4S3A00	
	MT7612X	BTLD0016082G4S3A00	
	MT7668	BTLD0016082G4S3YF0	DP1608-A2455DTA2
		BTLD0020152G4S3A10	DP2015-A2455AA
	MT7658	BTLD0020152G4S3A10	DP2015-A2455AA_
	MT7663	BTLD0016082G4S3YF0	DP1608-A2455DTA2

Realtek Platform



Design House	Chipset	Chilisin P/N	Competitor P/N
Realtek	RTL8822B	BTLD0016082G4S3WF0	RFDIP160806ALM6T30
		BTLD0016082G4S3T90	
		BTLD0016082G4S3T00	

Hisilicon Platform

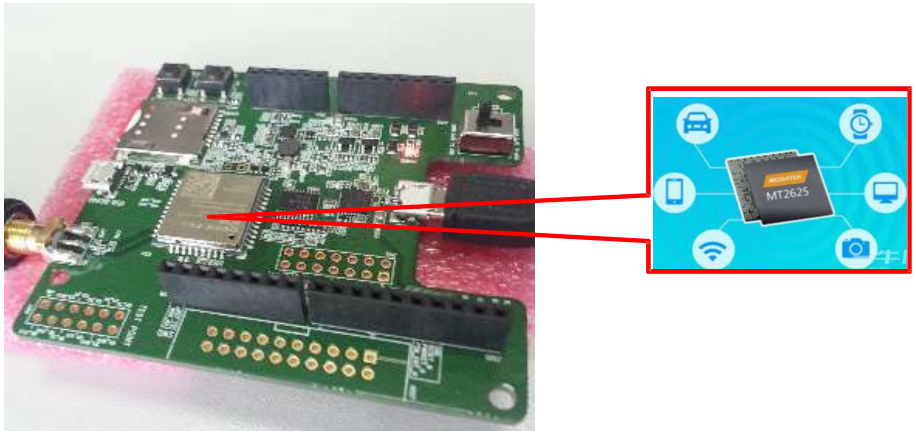


Platform		Chilisin P/N	Original BOM
Hisilicon Boudica 150	LB Balun	BTLU0010050G7H6D10	HHM1944A1
	MB Balun	BTLU0010052G0S1A10	HHM1927A4
	MB LPF	BTLL0010051G7H6A10	DEA102180LT-6341B1
	LB LPF	BTLL0016080G8H6A10	DEA160960LT-5113B1

RDA Platform

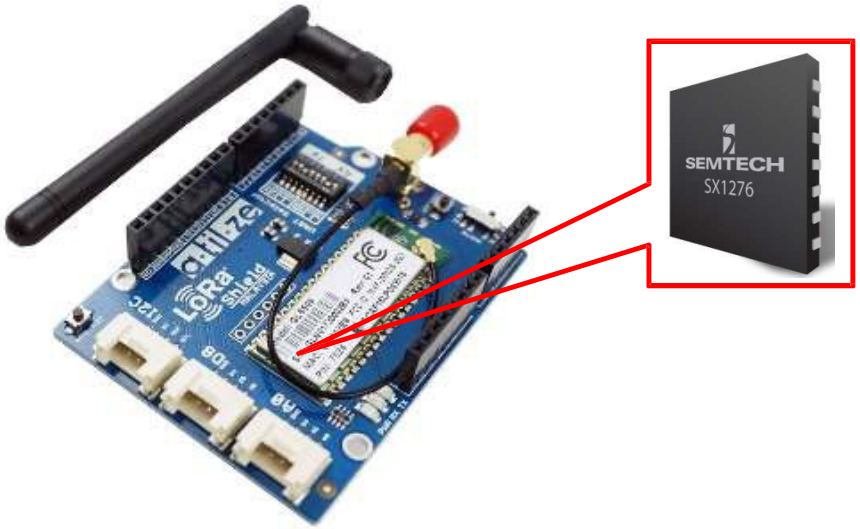
Platform		Chilisin P/N	Original BOM
RDA RDA8909	MB LPF	BTLL0016082G0H6A20	DEA161990LT-1182A8
	LB LPF	BTLL0016080G8H6A30	DEA160960LT-5044C1

MTK Platform



Platform		Chilisin P/N	Original BOM
MTK MT2625	MB LPF	BTLL0010050G9H6A30	FI105L0829GZ-T
	LB LPF	BTLL0016082G1H6A10	LF18L2170H107-L72/M

MTK Platform



Platform			Chilisin P/N	Reference P/N
Semtech SX127X	433MHz	LPF	BTLL0020120G5H6A10	0500LP15A500
		Balun	BTLU0020120G6S3A10	HHM1591D1
	868MHz	LPF	BTLL0020120G8H6A10	0868LP15A020
		Balun	BTLU0020120G6S3A10	HHM1591A2
	920MHz	LPF	BTLL0020120G9S1A20	0915LP15B026E
		Balun	BTLU0020120G6S3A10	HHM1591A2

Your contact person for LTCC

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Managing Director

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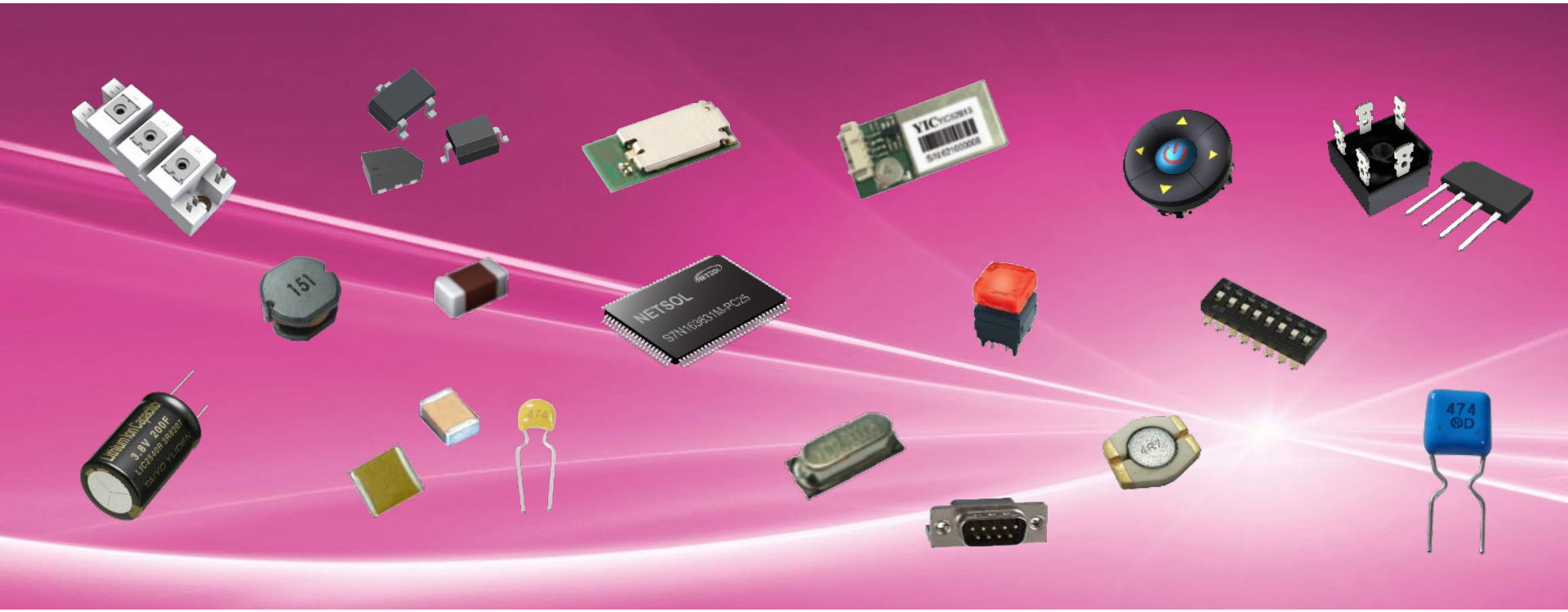
mail: hassenpflug@blume-elektronik.de

Thank You !



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