



kxcomtech

LEADING Wireless Future

**Kangxi Communication Technologies
Product Portfolio**

2022 Q3

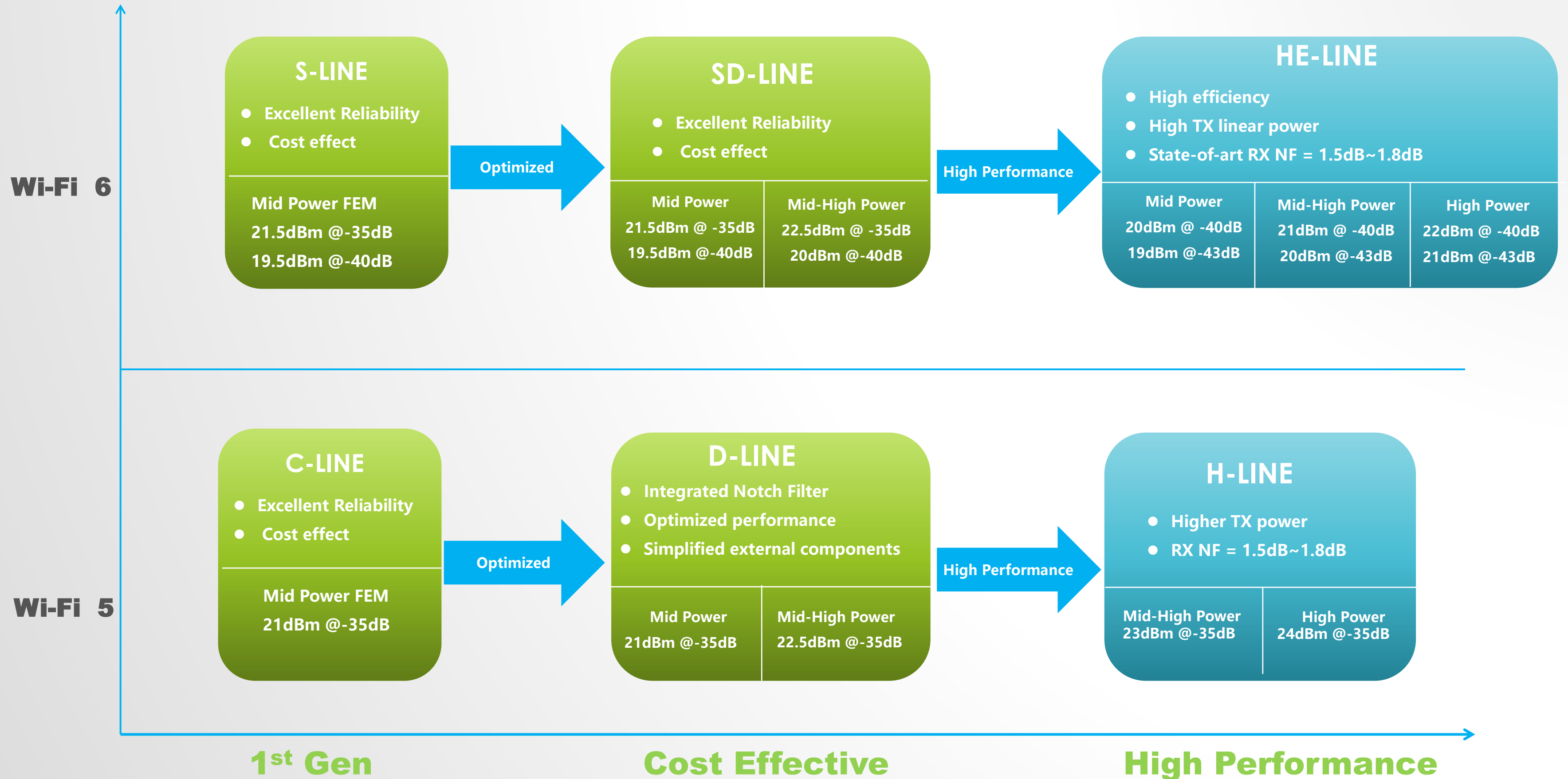


01

KCT Product Roadmap

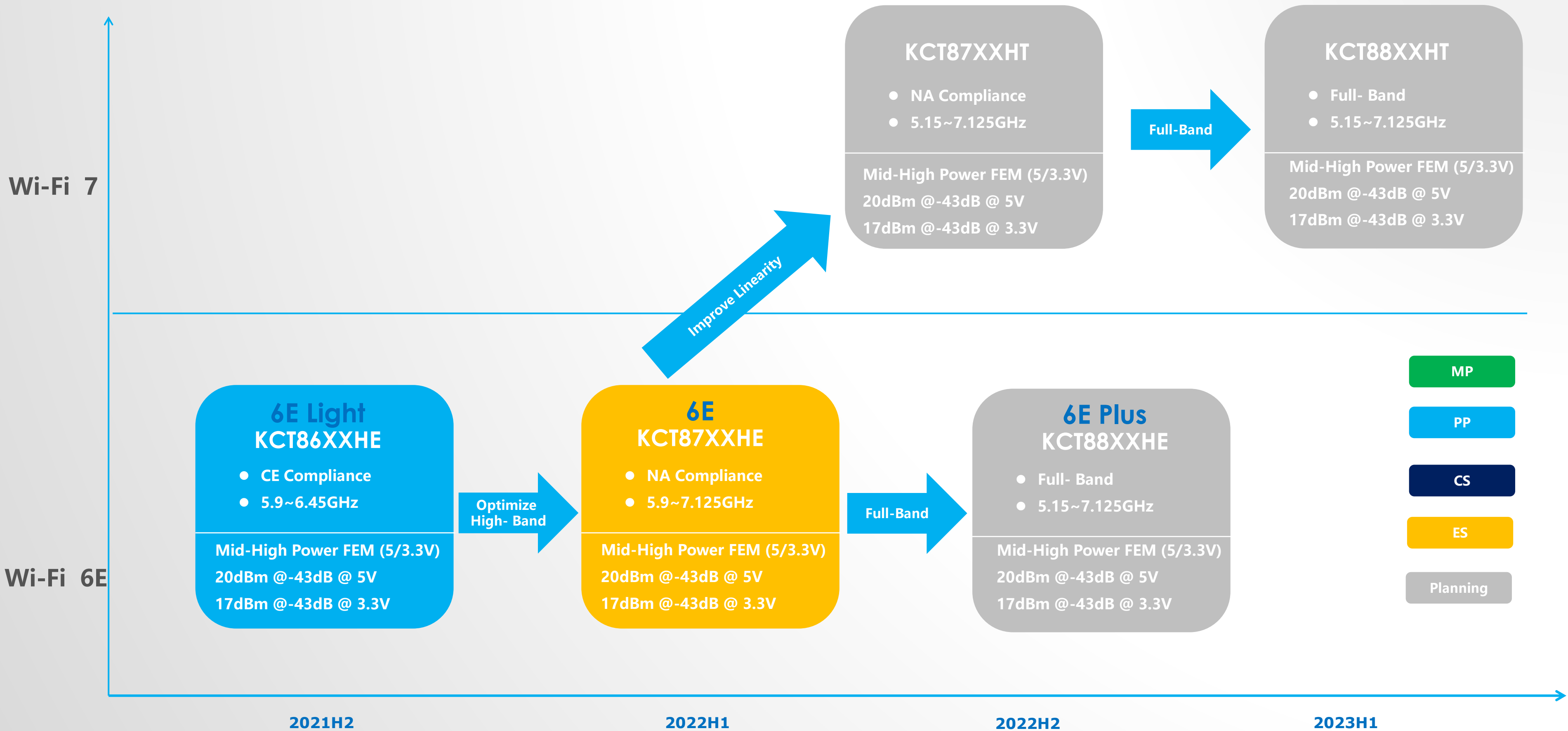


Product Roadmap – Wi-Fi 5/6 (for CPE, PON, AP Router)

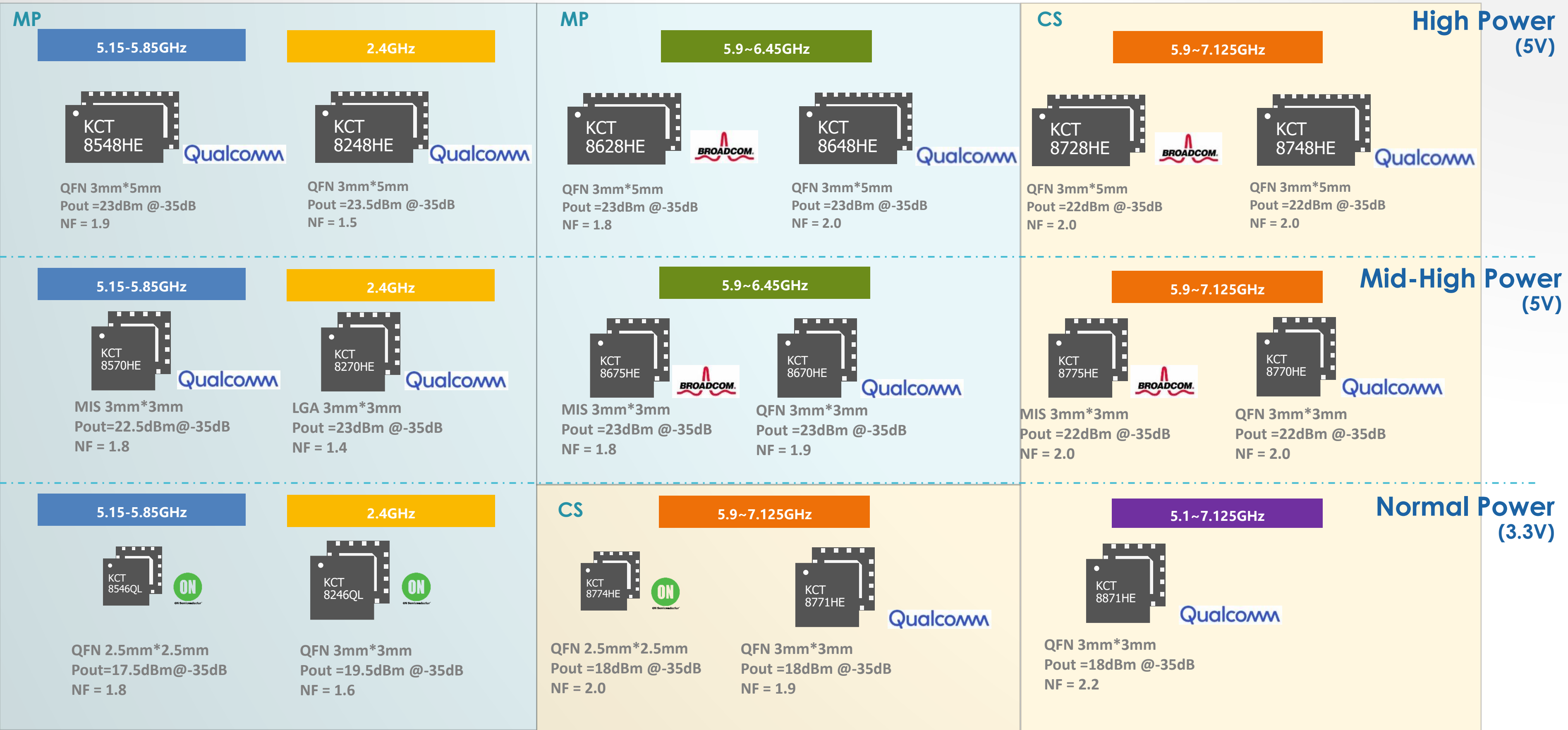




Product Roadmap – Wi-Fi 6E and Wi-Fi 7 Infrastructure



KCT Wi-Fi 6/6E Product Roadmap



2020

2021

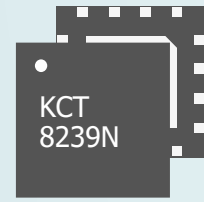
2022



KXcomtech Non-Linear Wi-Fi FEM Product Roadmap

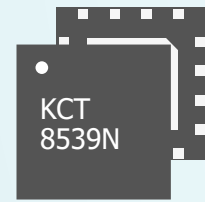
WiFi6
Non-Linear FEM

2.4GHz



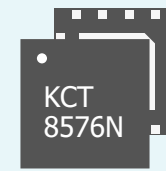
MIS 3mm*3mm
Pout =22.8dBm@-35dB
Pout =21.5dBm @-43dB
NF = 1.5dB

5.15-5.85GHz



MIS 3mm*3mm
Pout=23.7dBm@-35dB
Pout =19.0dBm @-43dB
NF = 1.7dB

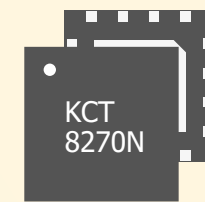
5.15-5.85GHz



QFN 2.5mm*2.5mm
Pout =24dBm@-35dB
Pout =18.0dBm @-43dB
NF = 1.7dB

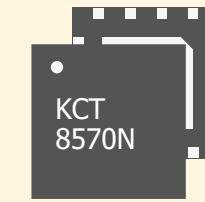
WiFi6 / 6E
Non-Linear FEM
(With Coupler/Log Detector)

2.4GHz



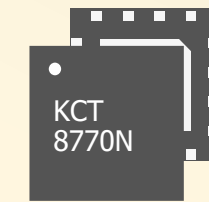
LGA 3mm*3mm
Pout =23.0dBm@-35dB
Pout =20.0dBm @-43dB
NF = 1.7dB

5.15-5.925GHz



QFN 3mm*3mm
Pout =23.5dBm@-35dB
Pout =20.0dBm @-43dB
NF = 1.8dB

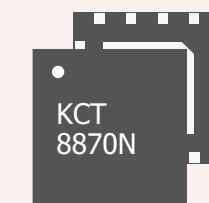
5.9-7.125GHz



QFN 3mm*3mm
Pout =23.5dBm@-35dB
Pout =20.0dBm @-43dB
NF = 1.9dB

Ultra Wide Band
Non-Linear FEM
(With Coupler/Log Detector)

5.15-7.125GHz



QFN 3mm*3mm
Pout =23.5dBm@-35dB
Pout =20.0dBm @-43dB
NF = 2.0dB

2020

2021

2022



02

Product Highlights



High-End Wi-Fi FEM

Product Catalog			Frequency Band	Normal Power (3.3V) 2.5*2.5mm / 3*3mm	Mid-Power (5V) 2.5*2.5mm / 3*3mm	Mid-High Power (5V) 2.5*2.5mm / 3*3mm	High Power (5V) 3mm*3mm	High Power (5V) 3mm*5mm
WLAN Infrastructure	Wi-Fi 6E	6E	5.9-7.1G	KCT8771HE KCT8773HE	N/A	KCT8775HE KCT8770HE (2022 Q3)	N/A	KCT8728HE KCT8748HE (2022 Q3)
		6E Light	5.9-6.4G	N/A	N/A	KCT8675HE KCT8670HE	N/A	KCT8628HE KCT8648HE
	Wi-Fi 6	HE-Line (NF=1.6@2GHz NF=1.8@5GHz)	5GHz	KCT8574HE KCT8571HE (20dBm/220mA)	KCT8546HE KCT8547HE (21dBm/225mA)	KCT8575HE KCT8576HE KCT8570HE (23dBm/280mA)	N/A	KCT8548HE KCT8528HE (24dBm/340mA)
			2.4GHz	KCT8270HE (20dBm/200mA)	N/A	KCT8246HE KCT8247HE KCT8270HE KCT8237HE (23dBm/300mA)	KCT8276HE (24dBm/350mA)	KCT8248HE KCT8243HE (24.5dBm/420mA)
	Wi-Fi 5	H-Line (NF=1.6@2GHz NF=1.8@5GHz)	5GHz	N/A	N/A	KCT8527H (23dBm/350mA)	KCT8526H (24dBm/300mA)	KCT8528H (24dBm/325mA)
			2.4GHz	N/A	N/A	KCT8227H KCT8223H (23dBm/290mA)	N/A	KCT8232H (24.5dBm/420mA)

Normal Power: 19.5~21dBm @ 1.8%
 Mid-Power: 21~22.5dBm @ 1.8%
 Mid-High Power: 22.5~23.5dBm @ 1.8%
 High Power >= 23.5dBm@1.8%



Cost-Effective Wi-Fi FEM

Product Catalog		Band	Mid-Power (5V) 2.5*2.5mm / 3*3mm	Mid-High Power (5V) 2.5*2.5mm / 3*3mm	
WLAN Infrastructure	Wi-Fi 6	S-Line	5GHz	KCT8539S (21.5dBm/310mA)	KCT8539S-1 (22.5dBm/300mA)
			2.4GHz	KCT8239S (22dBm/270mA)	N/A
		SD-Line	5GHz	KCT8539SD (21.5dBm/305mA)	KCT8570SD KCT8539SD-1 (22.5dBm/295mA)
			2.4GHz	N/A	KCT8239SD KCT8245SD (24dBm/300mA) (2022Q3)
	Wi-Fi 5	D-Line	5GHz	KCT8522D KCT8525D-1 (22dBm/290mA)	KCT8523D KCT8529D (23.5dBm/350mA)
			2.4GHz	KCT8226D KCT8227D KCT8229D (22dBm/270mA)	KCT8227B KCT8229D-1 (23dBm/300mA)
		C-Line	5GHz	KCT8522C KCT8525C (21dBm/330mA)	N/A

Normal Power: 19~20dBm @ 1.8%
 Mid-Power: 20.5~22dBm @ 1.8%
 Mid-High Power: 22.5~24dBm @ 1.8%
 High Power >= 24dBm@1.8%



Wi-Fi 6E FEM Product Portfolio

Key Features	PN	PIN Compatible	Package	Voltage	TX Power @3%(dBm)	TX Current @3%dBm	RX Gain (dB)	Noise Figure (dB)	Coupling Factor (dB)	Notch Filter
Mid-High Power	KCT8748HE	SKY85784-11 QPF4658	3*5	5V	23	340	15	2.0	16.5	2.4GHz Notch
	KCT8728HE	SKY85780-11	3*5	5V	23	340	14.5	2.0	N/A	2.4GHz Notch
	KCT8770HE	SKY85783-11 QPF4659	3*3	5V	23	340	14.5	2.0	16	2.4GHz Notch
	KCT8775HE	SKY85781-11 QPF4656	3*3	5V	23	330	13.5	2.0	N/A	2.4GHz Notch
Normal Power/ Ultra High Efficiency	KCT8771HE	SKY85783-11 QPF4730	3*3	3.3V	20	290	14.5	1.9	17.5	2.4GHz Notch
	KCT8773HE	SKY85781-11 QPF4656	3*3	3.3V	19.5	290	13.5	2.2	N/A	2.4GHz Notch
	KCT8774HE	QPF4632	2.5*2.5	3.3V	19	240	13.5	2.0	N/A	2.4GHz Notch
5.1-7.1GHz Normal Power/ Ultra High Efficiency	KCT8871HE	QPF4730	3*3	3.3V	19	240	13	2.2	17	2.4GHz Notch



Wi-Fi 6 FEM Product Portfolio 5GHz

Key Features	PN	PIN Compatible	Package	Voltage	TX Power @3%(dBm)	TX Current @3%dBm	RX Gain (dB)	Noise Figure (dB)	Coupling Factor (dB)	Notch Filter
High Power	KCT8548HE	SKY85747-11 QPF4588	3*5	5V	24	370	16	1.9	12	2.4GHz Notch
	KCT8528HE	SKY85743-21 QPF4516	3*5	5V	24.5	385	16	1.7	N/A	2.4GHz Notch
Mid-High Power	KCT8570HE	SKY85791-11	3*3	5V	23.5	300	16.5	1.8	12	2.4GHz Notch
	KCT8575HE	SKY85755-11	3*3	5V	24	300	16.5	1.7	N/A	2.4GHz Notch
	KCT8576HE	SKY85746-11 QPF4551	2.5*2.5	5V	24	300	16	1.7	N/A	2.4GHz Notch
Mid-Power/ High Efficiency	KCT8547HE-1	QPF4506B	3*3	5V	22	240	16	1.7	N/A	2.4GHz Notch
	KCT8546HE(Q)	QPF4550	2.5*2.5	5V	22	240	15	1.7	N/A	2.4GHz Notch
Normal Power/ Ultra High Efficiency	KCT8571HE	SKY85750-11 QPF4528	3*3	3.3V	20	200	16.5	1.7	12	2.4GHz Notch
	KCT8574HE	SKY85748-11 QPF4532	2.5*2.5	3.3V	20.5	220	16.5	1.7	N/A	2.4GHz Notch
	KCT8546QL	QPF4532	2.5*2.5	3.3V	19	200	16.5	1.7	N/A	2.4GHz Notch



Wi-Fi 6 FEM Product Portfolio 2.4GHz

Key Features	PN	Compatible	Package	Voltage	TX Power @3%(dBm)	TX Current @3%dBm	RX Gain (dB)	Noise Figure (dB)	Coupling Factor (dB)	Notch Filter
High Power	KCT8243HE	SKY85331-11	3*5	5V	25.5	375	15	1.5	N/A	5GHz Notch
	KCT8248HE	SKY85333-11 QPF4288	3*5	5V	24.5	350	16	1.5	16	5GHz Notch
	KCT8276HE	QPF4200	3*3	5V	25.5	330	16	1.7	N/A	5GHz Notch
Mid-High Power	KCT8247HE-1	SKY85337-11	3*3	5V	23.5	285	15.5	1.5	N/A	NA
	KCT8246HE(Q)	QPF4200	3*3	5V	24	315	16	1.5	N/A	NA
	KCT8270HE	SKY85340-11	3*3	5V	24	280	14.5	1.4	15	5GHz Notch
	KCT8237HE	SKY85347-11	3*3	5V	23.5	300	15.5	1.6	N/A	5GHz Notch
Normal Power/ Ultra High Efficiency	KCT8246QL	SKY85319-11 QPF4200	3*3	3.3V	20.5	250	15	1.6	N/A	5GHz Notch
	KCT8270HE	SKY85340-11	3*3	3.3V	20	200	14.5	1.5	15	5GHz Notch



Wi-Fi 6 Cost Effective Product 2.4GHz & 5GHz

Key Features	PN	Compatible	Package	Frequency (GHz)	Voltage	TX Power @3% (dBm)	TX Current @3%dBm	RX Gain (dB)	Noise Figure (dB)	Notch Filter
Mid-High Power/ High CP	KCT8539S-1	RTC7676E QPF4526	3*3	5G	5V	23.5	320	17	1.8	2.4GHz Notch
	KCT8539HE	RTC7676E QPF4526	3*3	5G	5V	24	370	16.5	1.7	2.4GHz Notch
	KCT8539SD-1	RTC7676E QPF4526	3*3	5G	5V	24	375	13.5	3.0	2.4GHz Notch
	KCT8570SD	RTC66506	3*3	5G	5V	24	350	14.5	2.9	2.4GHz Notch
	KCT8239SD	RTC7646	3*3	2.4G	5V	24.5	325	15.5	2.5	5GHz Notch
	KCT8245SD	QPF4211	2.5*2.5	2.4G	5V	24	295	15	2.6	5GHz Notch
Mid-Power/ High CP	KCT8539SD	RTC7676	3*3	5G	5V	22.5	325	14	3.1	2.4GHz Notch
	KCT8539S	RTC7676	3*3	5G	5V	22.5	330	14	2.6	2.4GHz Notch
	KCT8239S	RTC7646H	3*3	2.4G	5V	23	300	19	2.6	N/A



Wi-Fi 5 Recommended Product 2.4GHz & 5GHz

Key Features	PN	Compatible	Frequency (GHz)	Voltage	TX Power @3%(dBm)	TX Current @3%dBm	RX Gain (dB)	Notch Filter
High Power	KCT8528H	SKY85728-11 QPF4516	5G	5V	25	380	16	2.4GHz Notch
	KCT8232H	SKY85331-11	2.4G	5V	25	450	15	NA
	KCT8526H	SKY85712-11	5G	5V	24	325	16.5	2.4GHz Notch
	KCT8523H	SKY85712-11	5G	5V	24	340	15.5	2.4GHz Notch
Mid-High Power/ High Performance	KCT8527H	SKY85746-11	5G	5V	23.5	320	16.5	2.4GHz Notch
	KCT8223H KCT8227H	SKY85310-11 SKY85303-11	2.4G	5V	24.5 23.5	320 310	15.5 15.0	NA
Mid-Power/ High CP	KCT8529D KCT8523D	RTC5638HE RTC5639E	5G	5V	23.5	385	14	2.4GHz Notch
	KCT8229D-1 KCT8227B	SKY85330 RTC7625HE	2.4G	5V	23.5	300	15	N/A
	KCT8525D-1 KCT8522D	RTC5638H RTC5639	5G	5V	22.5	360	14	2.4GHz Notch
Low Cost	KCT8525D	RTC5638H	5G	5V	22	320	13.5	2.4GHz Notch
	KCT8229D KCT8227D KCT8226D	SKY85330-11 RTC7626HS RTC7625H	2.4G	5V	22.5	290	17	N/A



03

Full Product List

HE Line | High-End Wi-Fi 6E FEM - 6GHz

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -40dB(dBm)	TX Power@ -35dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part
KCT8628HE	5.9 - 6.4	5	21	23	31	15	1.8	QFN 24L 3*5*0.75	SKY85780-11
KCT8648HE	5.9 - 6.4	5	21	23	31	14.5	2.0	QFN 24L 3*5*0.75	SKY85784-11 QPF4658
KCT8670HE	5.9 - 6.4	5	22	23	30.5	15	1.9	QFN 16L 3*3*0.75	SKY85783-11 QPF4659
KCT8675HE	5.9 - 6.4	5	22	23	32	15.5	1.8	MIS 16L 3*3*0.57	SKY85781-11 QPF4656
KCT8728HE	5.9 - 7.1	5	18.5	22	30.5	15	2.0	QFN 24L 3*5*0.75	SKY85780-11
KCT8748HE	5.9 - 7.1	5	18.5	22	30.5	15	2.0	QFN 24L 3*5*0.75	SKY85784-11 QPF4658
KCT8770HE	5.9 - 7.1	5	19.5	22	30.5	14.5	2.0	QFN 16L 3*3*0.75	SKY85783-11 QPF4659
KCT8775HE	5.9 - 7.1	5	19.5	22	30.5	13.5	2.0	MIS 16L 3*3*0.57	SKY85781-11 QPF4656
KCT8771HE	5.9 - 7.1	3.3	17	18	30	14.5	1.9	QFN 16L 3*3*0.75	SKY85783-11
KCT8773HE	5.9 - 7.1	3.3	16.5	18.5	29	13.5	2.0	QFN 16L 3*3*0.75	SKY85781-11 QPF4656
KCT8774HE	5.9 - 7.1	3.3	17	18	30	14.5	1.9	QFN 16L 2.5*2.5*0.55	QPF4632
KCT8871HE	5.1 - 7.1	3.3	15.5	18	29	13	2.2	QFN 16L 3*3*0.75	QPF4730

N Line | N-Line - High Efficiency DPD FEM Solution 2.4G & 5GHz

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -40dB(dBm)	TX Power@ -35dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)
KCT8239N	2.4 - 2.5	5	22	22.8	31.5	16	1.5	MIS 16L 3*3*0.55
KCT8270N	2.4 - 2.5	5	22	23	29	14	1.7	LGA16L 3*3*0.75
KCT8576N	5.15 - 5.85	5	20.5	24	30.5	16.5	1.7	QFN 16L 2.5*2.5*0.55
KCT8539N	5.15 - 5.95	5	20.5	23.7	31.5	16	1.7	MIS 16L 3*3*0.55
KCT8570N	5.15 - 5.95	5	22.5	24	31	16	1.8	QFN16L 3*3*0.75
KCT8770N	5.9 - 7.1	5	21.5	23.5	32	14	1.9	QFN16L 3*3*0.75
KCT8870N	5.1 - 7.1	5	20.5	23.5	31.5	13.5	2.0	QFN16L 3*3*0.75

HE Line | High-End Wi-Fi 6 FEM - 5GHz

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -40dB(dBm)	TX Power@ -35dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part
KCT8528HE	5.15 – 5.85	5	21	23.5	31.5	16	1.7	QFN 24L 3*5*0.75	SKY85743-21 QPF4516B RTC76780
KCT8548HE	5.15 – 5.85	5	21	23	30.5	16	1.9	QFN 24L 3*5*0.75	SKY85747-11 QPF4588 RTC66504
KCT8528HE-1	5.15 – 5.85	5	22	24.5	30	16	1.8	QFN 24L 3*5*0.75	SKY85743-21 QPF4516B RTC76780
KCT8548HE-1	5.15 – 5.85	5	22	24.5	29.5	16	1.9	QFN 24L 3*5*0.75	SKY85747-11 QPF4588 RTC66504
KCT8570HE	5.15 – 5.85	5	20.5	22.5	30.5	16.5	1.8	QFN 16L 3*3*0.75	SKY85791-11 QPF4559 RTC66506
KCT8580HE	5.15 – 5.85	5	21.5	24	29	16	1.8	QFN 16L 3*3*0.75	SKY85791-11 QPF4559 RTC66506
KCT8571HE	5.15 – 5.85	3.3	17.5	19	30	16.5	1.7	QFN 16L 3*3*0.55	SKY85750-11 QPF4528
KCT8575HE	5.15 – 5.85	5	21.5	23	32	16.5	1.7	MIS 16L 3*3*0.57	SKY85755-11 QPF4555B
KCT8575HE-1	5.15 – 5.85	5	21.5	23	31.5	16.5	1.7	MIS 16L 3*3*0.57	SKY85755-11 QPF4555B
KCT8585HE	5.15 – 5.85	5	21	24.5	31	17	1.8	MIS 16L 3*3*0.57	SKY85755-11 QPF4555B
KCT8539HE	5.15 – 5.85	5	20.5	23	31	16.5	1.7	QFN 16L 3*3*0.75	QPF4526 QPF4506B RTC7676E
KCT8547HE-1	5.15 – 5.85	5	19	20.5	29	16	1.6	MIS 16L 3*3*0.57	QPF4506B

HE Line | High-End Wi-Fi 6 FEM - 5GHz

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -40dB(dBm)	TX Power@ -35dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part
KCT8545HE	5.15 – 5.85	5	19	21.5	30	16	1.8	QFN 16L 2.5*2.5*0.55	QPF4550
KCT8546HE(Q)	5.15 – 5.85	5	19.5	20.5	30	16	1.7	QFN 16L 2.5*2.5*0.55	QPF4550 RTC66534
KCT8546QL	5.15 – 5.85	3.3	16	17.5	29.5	16.5	1.8	QFN 16L 2.5*2.5*0.55	QPF4550 QPF4532
KCT8576HE	5.15 – 5.85	5	21	23	30.5	15.5	1.8	QFN 16L 2.5*2.5*0.55	SKY85746-11 QPF4551
KCT8574HE	5.15 – 5.85	3.3	18	19.5	30	16.5	1.7	QFN 16L 2.5*2.5*0.55	SKY85748-11 QPF4532 RTC7699

HE Line | High-End Wi-Fi 6 FEM – 2.4GHz

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -40dB(dBm)	TX Power@ -35dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part
KCT8243HE	2.4 – 2.5	5	22.5	24.5	33.5	15	1.5	QFN 24L 3*5*0.75	SKY85331-11 QPF4216 RTC76470
KCT8248HE	2.4 – 2.5	5	21.5	23.5	33.5	16	1.5	QFN 24L 3*5*0.75	SKY85333-11 QPF4288 RTC66204
KCT8248HE-1	2.4 – 2.5	5	23	24.5	33.5	15	1.5	QFN 24L 3*5*0.75	SKY85333-11 QPF4288 RTC66204
KCT8276HE	2.4 – 2.5	5 3.3	22.5 19.5	24.5 21	31.5 31.5	16 16	1.7 1.7	QFN 16L 3*3*0.55	SKY85326-11 QPF4200
KCT8270HE	2.4 – 2.5	5 3.3	21 18	23 19	30 29	14.5 14.5	1.4 1.5	LGA 16L 3*3*0.76	SKY85340-11 QPF4228 RTC66266
KCT8280HE	2.4 – 2.5	5	22.5	24.5	32	14.5	1.8	LGA 16L 3*3*0.76	SKY85340-11 QPF4228 RTC66266
KCT8247HE-1	2.4 – 2.5	5	21	22.5	30	15.5	1.5	MIS 16L 3*3*0.57	SKY85337-11 QPF4206B RTC7646E
KCT8246HE(Q)	2.4 – 2.5	5	20.5	23	30	16	1.5	QFN 16L 3*3*0.55	SKY85326-11 QPF4200 RTC66266
KCT8246QL	2.4 – 2.5	3.3	17	19.5	29.5	15	1.6	QFN 16L 3*3*0.55	SKY85319-11 QPF4200
KCT8237HE	2.4 – 2.5	5	21.5	22.5	30	15.5	1.6	QFN 16L 3*3*0.55	SKY85347-11

S & SD LINE | High Cost-Performance Wi-Fi 6 FEM 2.4G & 5GHz

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -40dB(dBm)	TX Power@ -35dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part
KCT8239S	2.4 – 2.5	5	20.5	22	29	19	2.6	MIS16L 3*3*0.55	SKY85337-11 QPF4206B RTC7646
KCT8239SD	2.4 – 2.5	5	21.5	23.5	30	15.5	2.5	QFN16L 3*3*0.75	SKY85337-11 QPF4206B RTC7646
KCT8245SD	2.4 – 2.5	5	22	23	31	15	2.6	QFN16L 2.5*2.5*0.55	QPF4211
KCT8539SD-1	5.15 – 5.85	5	22	23	30.5	13.5	3.0	QFN16L 3*3*0.75	QPF4526 RTC7676
KCT8539SD	5.15 – 5.85	5	20	21.5	30	14	3.1	QFN16L 3*3*0.75	QPF4555B RTC7676
KCT8539S-1	5.15 – 5.85	5	20.5	22.5	32	17	1.8	MIS16L 3*3*0.57	SKY85755-11 QPF4526 RTC7676E
KCT8539S	5.15 – 5.85	5	20	21.5	30	14	2.6	LGA16L 3*3*0.85	QPF4555B RTC7676
KCT8539S-M	5.15 – 5.85	5	19	21.5	30	15	2.6	MIS16L 3*3*0.55	QPF4555B RTC7676
KCT8570SD	5.15 – 5.85	5	21	23	30.5	14.5	2.9	QFN16L 3*3*0.75	SKY85791-11 QPF4559 RTC66506

H LINE | High-End Wi-Fi 5 FEM

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -35dB(dBm)	TX Power@ -30dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part
KCT8223H	2.4 – 2.5	5	23.5	24.5	30.5	15.5	1.5	QFN16L 3*3*0.55	SKY85319-11 RFFM4252 RTC7625HE
KCT8227H	2.4 – 2.5	5	22	23.5	31	15	1.6	QFN16L 2.5*2.5*0.55	SKY85303-21 RTC7626HE
KCT8232H	2.4 – 2.5	5	23.5	25	32.5	15	2.0	QFN24L 3*5*0.75	SKY85309-11 QPF4219 RTC7662
KCT8523H	5.15 – 5.85	5	22.5	24	30	15.5	2.0	QFN16L 3*3*0.55	SKY85712-21 RFFM4552 RTC5639E
KCT8526H	5.15 – 5.85	5	23	24	31	16.5	1.7	QFN16L 3*3*0.55	SKY85712-21 RFFM4552 RTC5639E
KCT8527H	5.15 – 5.85	5	22.5	23.5	32	16.5	1.6	QFN16L 2.5*2.5*0.55	SKY85746-11 RTC5638HE
KCT8528H	5.15 – 5.85	5	23.5	25	32	16	1.7	QFN24L 3*5*0.75	SKY85728-11 QPF4519 RTC7672

D LINE | High Cost-Performance Wi-Fi 5 FEM

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -35dB(dBm)	TX Power@ -30dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part	
KCT8226D	2.4 – 2.5	5	21.5	22.5	27.5	16.5	3	QFN16L 3*3*0.55	SKY85310-21	RTC7625H
KCT8227B	2.4 – 2.5	5	22	23	29.5	16	3.3	QFN16L 2.5*2.5*0.55	SKY85303-21	RTC7626H/HE/HS
KCT8227D	2.4 – 2.5	5	21.5	22.5	28	16	3	QFN16L 2.5*2.5*0.55	SKY85303-21	RTC7626HS
KCT8229D	2.4 – 2.5	5	21.5	22.5	27.5	16.5	3	LGA16L 2.5*2.5*0.78	SKY85330-21	SKY85329-21
KCT8229D-1	2.4 – 2.5	5	22.5	23.5	28	15	3.4	LGA16L 2.5*2.5*0.78	SKY85330-21	SKY85329-21
KCT8236D	2.4 – 2.5	5	23.5	24.5	29.5	15.5	2.5	QFN16L 3*3*0.75	SKY85337-11	QPF4206B RTC7646
KCT8522D	5.15 – 5.85	5	22	23	31.5	15	3.0	QFN16L 3*3*0.55	SKY85712-21	RTC5639
KCT8523D	5.15 – 5.85	5	22.5	23.5	31.5	15	3.0	QFN16L 3*3*0.55	SKY85712-21	RTC5639E
KCT8525D	5.15 – 5.85	5	20.5	21.5	30.5	13.5	3.0	QFN16L 2.5*2.5*0.55	SKY85717-21	RTC5638HS
KCT8525D-1	5.15 – 5.85	5	21.5	22.5	31	14	2.8	QFN16L 2.5*2.5*0.55	SKY85717-21	RTC5638H
KCT8529D	5.15 – 5.85	5	22	23	31	14	2.8	QFN16L 2.5*2.5*0.55	SKY85746-11	RTC5638HE
KCT8529D-1	5.15 – 5.85	5	22.5	23.5	31	14	2.8	QFN16L 2.5*2.5*0.55	SKY85746-11	RTC5638HE

C LINE | High Cost-Effective Wi-Fi 5 FEM Solution

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -35dB(dBm)	TX Power@ -30dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part	
KCT8533C	5.15-5.85	3.3	18	19	29	12	3.0	QFN16L 3*3*0.55	SKY85703-11	RTC5633
KCT8535C	5.15-5.85	5	21.5	22.5	28	12	3.0+	LGA12L	SKY85734-11	SKY85735-11
		3.3	18	19	28	12	3.0+	2*2*0.75		
KCT8536C	5.15-5.85	5	20.5	21.5	27.5	13	3.0+	LGA12L	SKY85734-11	SKY85735-11
		3.3	17	18	26.5	12.5	3.0+	2*2*0.76		
KCT8537C	5.15-5.85	5	21	22	29	13	3.0	QFN16L 2.3*2.3*0.55	SKY85753-11	

Dual-Band Wi-Fi 5 FEM

Part No.	Vcc (V)	TX Power@ -35dB(dBm)	TX Gain (dB)	TX Icq (mA)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part
KCT8822L	3.3	17 @2.4G 17 @5G	31 @2.4G 31 @5G	150 @2.4G 150 @5G	16 @2.4G 16 @5G	3.2 @2.4G 3.2 @5G	LGA24L 4*4*0.75	SE5516

RF PA

Part No.	Frequency (GHz)	Vcc (V)	TX Power@-35dB(dBm)	TX Power@-30dB(dBm)	TX Gain (dB)	Package (mm)	P2P Part
KCT6225H	2.4~2.5	5	24.5	25.5	31.5	QFN16L 3*3*0.75	SE2623L SE2576
KCT6526H	5.15~5.8	5	22.5	24.0	32.5	QFN20L 4*4*0.75	SKY85402-11 RFFM5542

RF Switch

Part No.	Frequency (GHz)	Vcc (V)	Insertion Loss (dB)	Isolation (dB)	Package (mm)	P2P Part
KCT2821L	1.0~3.0	3.3	0.60 @ 2.4~2.5 GHz 0.65 @ 1.0~3.0 GHz	23 @ 2.4~2.5 GHz 20 @ 1.0~3.0 GHz	SC-70, 6L, 1.25*2.1	SKY13343 RTC6603SP
KCT2825L	0.5~7.125	3.3	0.40 @ 2.17~2.69GHz 0.46 @ 4.8~5.0GHz 0.65 @ 6.0~7.2GHz	40 @ 2.17~2.69GHz 33 @ 4.8~5.0GHz 25 @ 6.0~7.2GHz	DFN, 6L, 1.0*1.0	RTC76080
KCT2826L	0.1~6.0	3.3	0.55 @ 2.4~2.5GHz 0.60 @ 0.1~3.0GHz 0.80 @ 3.0~6.0GHz	34 @ 2.4~2.5GHz 33 @ 0.1~3.0GHz 23 @ 3.0~6.0GHz	DFN, 6L, 1.5*1.5	SKY13314 RTC6609SP
KCT2828L	1.0~6.0	3.3	0.40 @ 2.4~2.5GHz 0.50 @ 1.0~3.0GHz 0.70 @ 3.0~6.0GHz	29 @ 2.4~2.5GHz 28 @ 1.0~3.0GHz 26 @ 3.0~6.0GHz	DFN, 6L, 1.0*1.0	SKY13351 RTC6608OSP

Filter

Part No.	Description	Frequency (GHz)	Insertion Loss (dB)	Attenuation (dB)	Package (mm)	P2P
KCT3231	2.4GHz Wi-Fi	2.4	1.8	33 dB @1559~1606MHz 53 dB @2300~2370MHz 43 dB @2510~2690MHz	1.4*1.1*0.73	SAFEA2G45MCOFOA
KCT3232	2.4GHz Wi-Fi (Cost-Effective)	2.4	1.4	30 dB @1559~1606MHz 39 dB @2300~2370MHz 42 dB @2510~2570MHz	1.1*0.9*0.65	SAFFB2G45MAOFOA
KCT3233	2.4GHz Wi-Fi (High Performance)	2.4	1.5	33 dB @1559~1606MHz 53 dB @2300~2370MHz 49 dB @2500~2505MHz	1.1*0.9*0.65	SAFOA2G45MAOGOAO

Diplexer

Part No.	Frequency (GHz)	Isolation (dB)	Insertion Loss (dB)	Return Loss (dB)	Attenuation (dB)	Package (mm)
KCT2494G93T01	2.4~2.496 4.9~5.95	30 @ 0.03~2.7GHz 41 @ 4.9-5.95GHz	0.43 @2.4~2.5GHz 0.56 @4.9~5.95GHz	18 @2.4~2.5GHz 20 @4.9~5.95GHz	34 @4.8~5.95GHz 18 @9.8~11.9GHz	1.6*0.8mm
KCT2494G93T11	2.4~2.496 4.9~5.95	30 @ 0.03~2.7GHz 41 @ 4.9-5.95GHz	0.43 @2.4~2.5GHz 0.56 @4.9~5.95GHz	18 @2.4~2.5GHz 20 @4.9~5.95GHz	34 @4.8~5.95GHz 18 @9.8~11.9GHz	1.6*0.8mm

RF FEM

Part No.	Frequency (GHz)	Voltage (V)	Psat (dBm)	RX NF (dB)	Package (mm)	P2P Part
KCT8101L	0.78~0.96	3.3	27.5	3.0	QFN16L 3*3*0.75	RFX1010
RT201	2.4~2.5	3.3	22.5	3.0	QFN16L 3*3*0.75	RFX2401C
RT202	2.4~2.5	3.3	22.5	3.0	QFN16L 3*3*0.75	RFX2402E
KCT8204L	2.4~2.5	3.3	22.5	3.0	QFN16L 3*3*0.55	/
KCT8205L	2.4~2.5	3.3	22.5	3.0	QFN16L 3*3*0.75	RFX2411N
KCT8206L	2.4~2.5	3.3	21.5	3.0	QFN16L 3*3*0.75	RFX2401C

LNA/SW

Part No.	Frequency (GHz)	Vcc (V)	LNA Gain (dB)	NF (dB)	Bypass Loss (dB)	Package (mm)	P2P Part
KCT4521L	5.15~5.85	3.3	17	1.9	4.5	QFN16L 2.3*2.3*0.55	RFFM4554
KCT4221L	2.4~2.5	3.3	15	1.4	6	QFN16L 2.3*2.3*0.55	SKY85201 RTC7663
KCT4222L	2.4~2.5	3.3	10	2.5	1.5	QFN16L 2.3*2.3*0.55	SKY85201 RTC7663

Wireless Connectivity

5GHz Wi-Fi 5 FEM

Part No.	Vcc (V)	TX Power@ -35dB (dBm)	TX Icq (mA)	RX NF (dB)	Package (mm)	Qualcomm Platform	P2P Part
KCT8552C	3.3	17.5	200	3.0	QFN16L 2.3*2.3*0.55	QCA6164A QCA6174A QCA9377	SKY85716-11 RFFM8528
KCT8553C	3.3	18	200	3.0	QFN16L 2.3* 2.3 *0.55	WCN3660B	SKY85720-11
	3.7	19	210	3.0		WCN3680B (3rd Generation)	SKY85742-11 RFFM8516
KCT8255HE	3.8	20.5	190	2.0	MIS 16L, 2.0*2.4*0.65	WCN6850/51 WCN6855/56	WLAN7207H QM42195

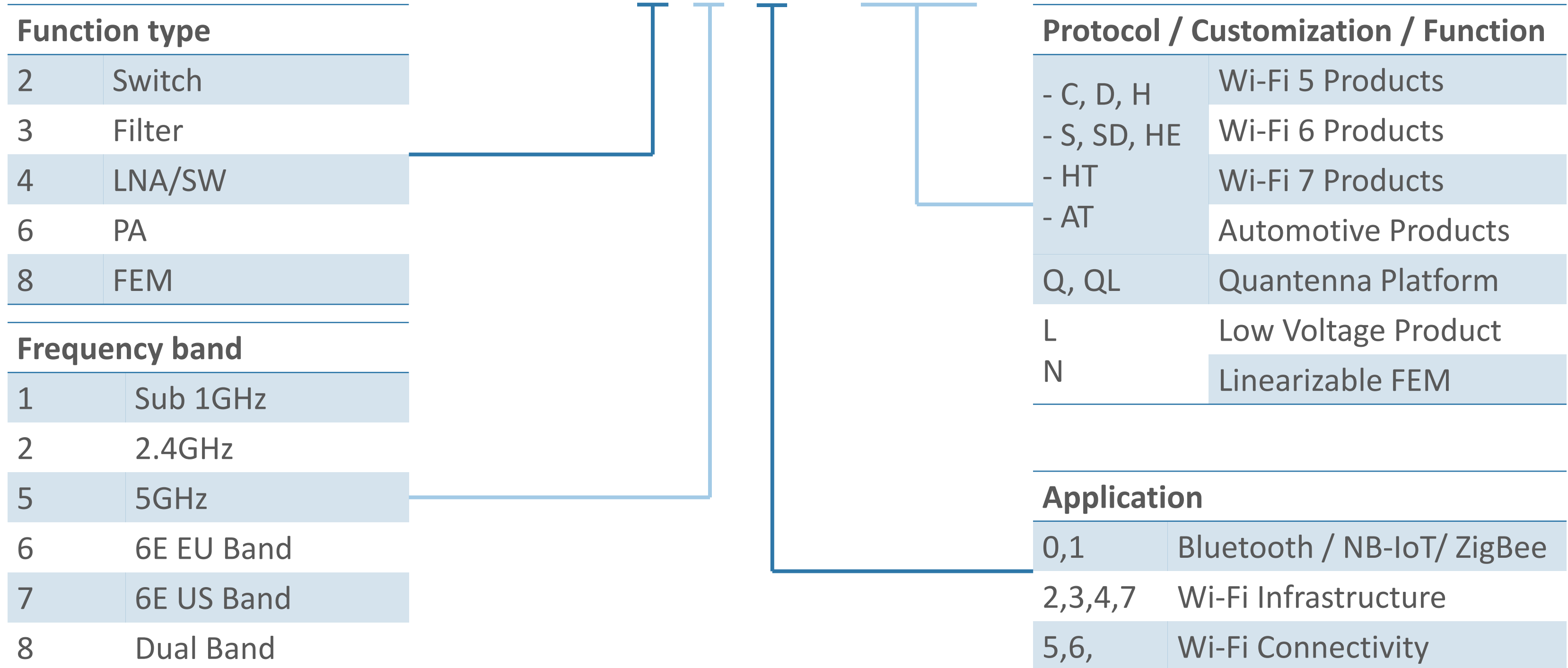
Automotive V2X

5GHz FEM

Part No.	Vcc (V)	Psat (dBm)	TX Power@ 3% (dBm)	TX Icq (mA)	RX Gain (dB)	RX NF (dB)	Package (mm)	P2P Part
KCT7526AT	5	31	24	165	16.5	1.7	QFN16L 3*3*0.55	RFFM8500Q
KCT7528AT	5	30	24.5	165	16	1.7	QFN24L 3*5*0.75	SKY21043

Naming Rule

KCT8548HE





Leading RF Technologies, Bridging Wireless Communication

Thank you



WEB: <http://www.kxcomtech.com/>

Copyright 2018 Kangxi Communication Technologies (shanghai) Co., Ltd. All Rights Reserved..

Address: 5th Floor, Building 10 No.399 Keyuan Road, Pudong New Area, Shanghai.

TEL: 021-68386910

Note: This document is subject to the latest released version, the previous data is invalid