kxcomtech

LEADING Wireless Future

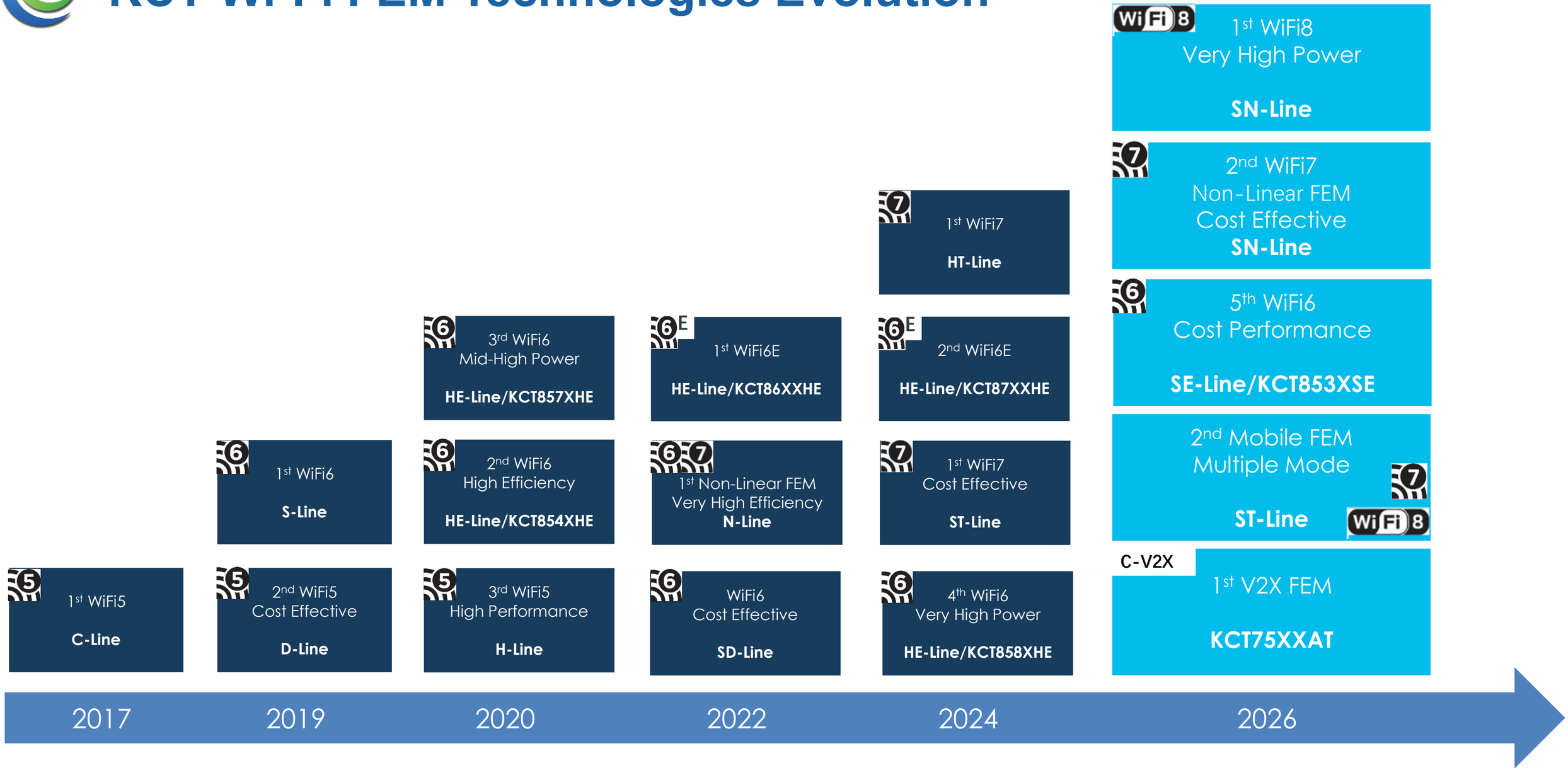
Kangxi Communication Technologies
Product Portfolio

2026 Q1

Leading RF Technologies, Bridging Wireless Communication

KCT Product Roadmap

KCT Wi-Fi FEM Technologies Evolution



KXcomtech Wi-Fi 7 Non-Linear Product Portfolio for Qualcomm

2.4GHz	5.15-5.925GHz	5.9~7.125GHz

Performance with DPD

3.3~5V Mid High Power Non-Linear FEM

LGA 3mm*3mm, Vdet & CPLR
21.0dBm EHT40 @-43dB
24.5dBm HT20 @-30dB
NF = 1.4dB

REFERENCE DESIGN

QFN 3mm*3mm, Vdet & CPLR
21.5dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 1.8dB

REFERENCE DESIGN

QFN 3mm*3mm, Vdet & CPLR
17.0dBm EHT320 @-43dB
24.5dBm HT20 @-30dB
NF = 1.9dB

REFERENCE DESIGN

3.3~5V Cost-Effective Non-Linear FEM

MIS 3mm*3mm, Vdet & CPLR
23.5dBm EHT40 @-43dB
25.5dBm HT20 @-30dB
NF = 1.9dB

REFERENCE DESIGN

QFN 3mm*3mm, Vdet & CPLR
22.0dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 1.9dB

REFERENCE DESIGN

New

QFN 3mm*3mm, Vdet & CPLR
23.0dBm EHT160 @-43dB
26.0dBm HT20 @-30dB
NF = 1.8dB

CS Mar

QFN 3mm*3mm, Vdet & CPLR
21.0dBm EHT320 @-43dB
26.0dBm HT20 @-30dB
NF = 2.3dB

CS Apr

QFN 3mm*3mm, Vdet & CPLR
24.0dBm EHT40 @-43dB
26.0dBm HT20 @-30dB
NF = 1.6dB

New

QFN 3mm*3mm, Vdet & CPLR
21.0dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 2.0dB

3.3~5V Low Cost Non-Linear FEM

Qualcomm

KXcomtech Wi-Fi 7 Linear Product Portfolio for Qualcomm

2.4GHz	5.15-5.925GHz	5.9~7.125GHz	5.1~7.1GHz

5V High Power Linear FEM

LGA 3x3mm, CPLR & Vdet
22.0dBm EHT40 @-43dB
25.0dBm HT20 @-30dB
NF = 1.6dB

New!

QFN 3x3mm, CPLR & Vdet
22.0dBm EHT40 @-43dB
25.0dBm HT20 @-30dB
NF = 1.6dB

QFN 3x3mm, CPLR & Vdet
20.0dBm EHT160 @-43dB
25.5 dBm HT20 @-30dB
NF = 1.8dB

New!

QFN 3x3mm, CPLR & Vdet
20.0dBm EHT160 @-43dB
25.5 dBm HT20 @-30dB
NF = 1.7dB

ES Mar

QFN 3mmx3mm, CPLR & Vdet
18.0dBm EHT320 @-43dB
24.0dBm HT20 @-30dB
NF = 2.2dB

5V Mid-High Power Linear FEM

LGA 3x3mm, CPLR & Vdet
20.0dBm EHT40 @-43dB
24.0dBm HT20 @-30dB
NF = 1.4dB

QFN 3x3mm, CPLR & Vdet
20.0dBm EHT160 @-43dB
24.0dBm HT20 @-30dB
NF = 1.8dB

New!

QFN 3x3mm, CPLR & Vdet
19.0dBm EHT160 @-43dB
24.0dBm HT20 @-30dB
NF = 2.0dB

QFN 3x3mm, CPLR & Vdet
15.5dBm EHT320 @-43dB
23.5dBm HT20 @-30dB
NF = 1.8dB

LGA 3x3mm, CPLR & Vdet
16.5dBm EHT320 @-43dB
23.5dBm HT20 @-30dB
NF = 2.3dB

3.3V Mid-High Power Linear FEM

LGA 3x3mm, CPLR & Vdet
16dBm EHT40 @-43dB
20dBm HT20 @-30dB
NF = 1.5dB

QFN 3x3mm, CPLR & Vdet
16dBm EHT160 @-43dB
20dBm HT20 @-30dB
NF = 1.7dB

QFN 3x3mm, CPLR & Vdet
13dBm EHT320 @-43dB
20dBm HT20 @-30dB
NF = 1.8dB

LGA 3x3mm, CPLR & Vdet
16.5dBm EHT320 @-43dB
22.0dBm HT20 @-30dB
NF = 2.3dB

Qualcomm

KXcomtech Wi-Fi 7 Non-Linear Product Portfolio for MTK

2.4GHz	5.15-5.925GHz	5.9~7.125GHz

Qualified on MTK Eagle BE19000, Kite BE7200/5000

LGA 3x3mm, Vdet & CPLR
21dBm EHT40 @-43dB wDPD
24dBm HT20 @-30dB wDPD
NF = 1.4dB

QFN 3x3mm, Vdet & CPLR
21.5dBm EHT160 @-43dB wDPD
25.0dBm HT20 @-30dB wDPD
NF = 1.8dB

QFN 3x3mm, Vdet & CPLR
19dBm EHT320 @-43dB wDPD
24dBm HT20 @-30dB wDPD
NF = 2.0dB

3.3~5V
Non-Linear FEM

Qualified on MTK Kite BE7200/5000, Griffin BE3600

MIS 3mm*3mm, Vdet & CPLR
23.5dBm EHT40 @-43dB
25.5dBm HT20 @-30dB
NF = 1.9dB

New

QFN 3mm*3mm, Vdet & CPLR
21.5dBm EHT160 @-43dB
24.0dBm HT20 @-30dB
NF = 1.9dB

CS Mar

LGA 3mm*3mm, Vdet & CPLR
21.0dBm EHT320 @-43dB
26.0dBm HT20 @-30dB
NF = 2.3dB

Performance with DPD

3.3~5V
Cost-Effective
Non-Linear FEM

MEDIATEK

KXcomtech Wi-Fi 7 Linear Product Portfolio for MTK

2.4GHz	5.15-5.925GHz	5.9~7.125GHz

Qualified on MTK Kite BE7200/5000

5V
Mid-High Power
Linear FEM

MEDIATEK DRL

LGA 3x3mm, CPLR & Vdet
20.0dBm EHT40 @-43dB
24.0dBm HT20 @-30dB
NF = 1.4dB

MEDIATEK DRL

QFN 3x3mm, CPLR & Vdet
20.0dBm EHT160 @-43dB
24.0dBm HT20 @-30dB
NF = 1.8dB

QFN 3x3mm, CPLR & Vdet
15.5dBm EHT320 @-43dB
23.5dBm HT20 @-30dB
NF = 1.8dB

5V
High Power
Linear FEM

MEDIATEK DRL

LGA 3x3mm, CPLR & Vdet
22.0dBm EHT40 @-43dB
25.0dBm HT20 @-30dB
NF = 1.6dB

New

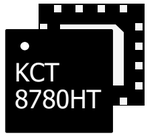
QFN 3x3mm, CPLR & Vdet
22.0dBm EHT40 @-43dB
25.0dBm HT20 @-30dB
NF = 1.6dB

MEDIATEK DRL

QFN 3x3mm, CPLR & Vdet
20.0dBm EHT160 @-43dB
25.5 dBm HT20 @-30dB
NF = 1.8dB

New

QFN 3x3mm, CPLR & Vdet
20.0dBm EHT160 @-43dB
25.5 dBm HT20 @-30dB
NF = 1.7dB



ES Mar

QFN 3mmx3mm, CPLR & Vdet
18.0dBm EHT320 @-43dB
24.0dBm HT20 @-30dB
NF = 2.2dB

MEDIATEK

KXcomtech Wi-Fi 7 Product Portfolio for Broadcom

2.4GHz	5.15-5.925GHz	5.9~7.125GHz

LGA 3x5mm, CLPR & Vdet
22.0dBm EHT40 @-43dB
25.5dBm HT20 @-30dB
NF = 1.8dB

LGA 3x5mm, CLPR & Vdet
18.5dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 2.2dB

QFN 3x5mm, CLPR & Vdet
20.5dBm EHT160 @-40dB
23.5dBm HT20 @-30dB
NF = 2.2dB

LowCost

QFN 3x3mm, CLPR & Vdet
18.5dBm EHT160 @-43dB
23.5dBm HT20 @-30dB
NF = 2.0dB

LGA 3x5mm, CLPR & Vdet
17.5dBm EHT320 @-43dB
23.0dBm HT20 @-30dB
NF = 2.4dB

5V
Linear FEM

3.3~5V
Non-Linear FEM

New

LGA 3x5mm, CLPR & Vdet
22.5dBm EHT40 @-43dl
25.5dBm HT20 @-30dB
NF = 2.0dB

REFERENCE DESIGN

New

LGA 3x5mm, CLPR & Vdet
22.0dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 2.0dB

REFERENCE DESIGN

New

LGA 3x5mm, CLPR & Vdet
22.0dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 2.1dB

REFERENCE DESIGN

New

LGA 3x5mm, CLPR & Vdet
20.5.0dBm EHT320 @-43dB
24.5dBm VHT80 @-30dB
NF = 2.2dB

REFERENCE DESIGN

BROADCOM

KXcomtech Wi-Fi 6 Linear Product Portfolio

2.4GHz	5.15-5.925GHz

5V
Linear FEM

MIS 3x3mm, Vdet
20dBm/ HE40 @-43dB
23.5dBm /HT20 @-30dB
NF = 1.5dB

QFN 3x3mm, Vdet
20.5dBm /HE160 @-43dB
24dBm /HT20 @-30dB
NF = 1.8dB

QFN 2.5x2.5mm, Vdet
17.5dBm HE160 @-43dB
23.5dBm HT20 @-30dB
NF = 2.1dB

QFN 3x3mm, Vdet
19.0dBm HE160 @-43dB
24.0dBm HT20 @-30dB
NF = 1.9dB

5V Low Cost
Linear FEM

QFN 3x3mm, Vdet
20.5dBm HE40 @-43dB
24.5dBm HT20 @-30dB
NF = 2.5dB

QFN 2.5x2.5mm, Vdet
20.5dBm HE40 @-43dB
24.0dBm HT20 @-30dB
NF = 2.5dB

QFN 3x3mm, Vdet
20.5dBm HE160 @-43dB
24.0dBm HT20 @-30dB
NF = 3.0dB

New

QFN 3x3mm, Vdet
19.0dBm HE160 @-43dB
24.0dBm HT20 @-30dB
NF = 1.9dB

Qualcomm

MEDIATEK

REALTEK

Full Product List

SN Line | Wi-Fi 7 Cost-effective DPD FEM Solution 2.4G & 5GHz

Part No.	Frequency (GHz)	Vcc (V)	TX Power With DPD @-43dB(dBm)	TX Power With DPD @-40dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)
KCT8240SN	2.4 - 2.5	5(3.3~5V)	22	22.5	31	16.5	1.9	MIS 16L 3*3
KCT8240SN-1	2.4 - 2.5	5(3.3~5V)	24	25	31	16	1.6	QFN 16L 3*3
KCT8280SN	2.4 - 2.5	5(3.3~5V)	23	23.5	31	16.5	1.9	MIS 16L 3*3
KCT8540SN	5.1 - 5.9	5(3.3~5V)	19.5	22	29.5	18	2.1	QFN 16L 3*3
KCT8540SN-2	5.1 - 5.9	5(3.3~5V)	21	22.5	30	17	1.9	QFN 16L 3*3
KCT8570SN	5.1 - 5.9	5(3.3~5V)	22	23	29.5	15.5	1.9	QFN 16L 3*3
KCT8570SN-1	5.1 - 5.9	5(3.3~5V)	21.5	22.5	29.5	16.5	1.9	QFN 16L 3*3
KCT8580SN	5.1-5.9	5	23	24	30	17	1.8	QFN 16L 3*3
★ KCT8780SN	5.9 - 7.1	5	21	23.5	33	13.5	2.3	LGA 16L 3*3
KCT8577SN	5.1-5.8	5	22	23	30	14.5	2.1	QFN 16L 3*3
KCT8278SN	2.4 - 2.5	5	22.5	23.5	30.5	16.5	2	LGA 24L 3*5
KCT8578SN	5.1 - 5.9	5	22	22.5	30	15.5	2.1	LGA 24L 3*5

ST Line | Wi-Fi 7 Cost-effective FEM 5GHz

	Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -43dB(dBm)	TX Power@ -40dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)
★	KCT8280ST	2.4 - 2.5	5	22	22.5	31	16	1.6	QFN 16L 3*3
★	KCT8570ST	5.1 - 5.9	5(3.3~5V)	19	21.5	30.5	15.5	2.0	QFN 16L 3*3
★	KCT8580ST	5.1 - 5.9	5	20	22.5	30.5	15.5	1.7	QFN 16L 3*3
	KCT8872ST	5.1-7.2	5	16.5	19	31	14	2.3	LGA 16L 3*3
	KCT8871ST	5.1-7.1	4.2 (3.3~4.2V)	16.5	19	30.5	14	2.3	LGA 16L 3*3
	KCT8573ST	5.1 - 5.8	5	18.5	20.5	32.5	RXH 14 RXM 6	RXH 2.0 RXM 2.4	QFN 20L 3*3
	KCT8568ST	5.1 - 5.9	5	17.5	20.5	30	RXH 15.5 RHM 5	RXH 2.2 RXM 3.0	QFN 24L 3*5

N Line | Wi-Fi 7 High-efficiency DPD FEM Solution 2.4G & 5GHz & 6GHz

Part No.	Frequency (GHz)	Vcc (V)	TX Power With DPD @-43dB(dBm)	TX Power With DPD @-40dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)
KCT8270N	2.4 - 2.5	5(3.3~5V)	21	22	29.5	14.0	1.4	LGA 16L 3*3
KCT8270M	2.4 - 2.5	5(3.3~5V)	21	22	29.0	14.5	1.4	LGA 16L 3*3
KCT8280N	2.4 - 2.5	5(3.3~5V)	23	24	31	14	1.6	LGA 16L 3*3
KCT8570N	5.1 - 5.9	5(3.3~5V)	21.5	22.5	29.5	17	1.8	QFN 16L 3*3
KCT8570M	5.1 - 5.9	5(3.3~5V)	21.5	22.5	29.5	17	1.8	QFN 16L 3*3
KCT8580N	5.1-5.9	5(3.3~5V)	22	23.5	30	16.5	1.8	QFN 16L 3*3
KCT8770N	5.9 - 7.1	5(3.3~5V)	19	22.5	33.5	13.5	2.0	QFN 16L 3*3
KCT8770M	5.9 - 7.1	5(3.3~5V)	19	22.0	33.5	13.5	2.0	QFN 16L 3*3
KCT8578N	5.1 - 5.9	5(3.3~5V) 4.2(3.3~5V)	22 20.5	23 21	30 29.5	RXH 17 RXM 5 RXH 2.0 RXM 2.5 RXH 17 RXM 5 RXH 2.0 RXM 2.5		LGA 24L 3*5
KCT8778N	5.9 - 7.1	5(3.3~5V)	20.5	23	31.5	RXH 14 RXM 4 RXH 2.2 RXM 3.2		LGA 24L 3*5

HT & HE Line | Wi-Fi 7 High-end FEM 2.4G & 5GHz & 6GHz

	Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -43dB(dBm)	TX Power@ -40dB(dBm)	TX Gain (dB)	RX Gain (dB)	RX NF (dB)	Package (mm)
	KCT8270HT	2.4 - 2.5	5 3.3	20 16	21 18	30 29	14.5 14.5	1.4 1.5	LGA 16L 3*3
	KCT8280HE	2.4 - 2.5	5	22	23	31.5	14	1.6	LGA 16L 3*3
	KCT8280HE-1	2.4 - 2.5	5	22	22.5	31	16	1.6	QFN 16L 3*3
★	KCT8280HE-2	2.4 - 2.5	5	22	23	31.5	16	1.6	QFN 16L 3*3
	KCT8570HT	5.1 - 5.9	5	20.5	21.5	31	16.5	1.8	QFN 16L 3*3
	KCT8580HE	5.1 - 5.9	5	19.5	22.5	30	16.5	1.7	QFN 16L 3*3
★	KCT8580HE-1	5.1 - 5.9	5	20	22.5	30.5	15.5	1.7	QFN 16L 3*3
	KCT8770HE	5.9 - 7.1	5	15.5	20	30	14	1.8	QFN 16L 3*3
ES	KCT8780HT	5.9 - 7.1	5	17.5	21.0	32	13	1.9	LGA 16L 3*3
	KCT8278HT	2.4 - 2.5	5	22	23	34	18.5	1.8	LGA 24L 3*5
	KCT8578HT	5.1 - 5.9	5	18.5	20.5	30	17.5	2.2	LGA 24L 3*5
	KCT8778HT	5.9-7.1	5	17.5	19	29	14	2.4	LGA 24L 3*5

HE Line | Wi-Fi 6 High-End FEM - 5GHz&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)
	KCT8548HE	5.15 - 5.85	5	21	23	30.5	16	1.9	QFN 24L 3*5
	KCT8528HE-1	5.15 - 5.85	5	22	24	30	17	1.8	QFN 24L 3*5
★	KCT8548HE-1	5.15 - 5.85	5	22	24	30.5	16.5	1.8	QFN 24L 3*5
★	KCT8570HE	5.15 - 5.85	5	20.5	22.5	30.5	16.5	1.8	QFN 16L 3*3
	KCT8571HE	5.15 - 5.85	3.3	17.5	19	30	16.5	1.7	QFN 16L 3*3
	KCT8575HE-1	5.15 - 5.85	5	21.5	23	31	17.5	1.7	MIS 16L 3*3
★	KCT8585HE	5.15 - 5.85	5	22	24.0	30.5	17	1.8	MIS 16L 3*3

HE Line | Wi-Fi 6 High-End 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)
	KCT8531HE	5.15 - 5.85	5	21.5	23	31	16.5	1.7	QFN 16L 3*3
★	KCT8539HE-1	5.15 - 5.85	5	21.5	23	31	16.5	1.9	QFN 16L 3*3
	KCT8539HE-2	5.15 - 5.85	5	21.5	23	30.5	15.5	1.9	QFN 16L 3*3
	KCT8547HE-1	5.15 - 5.85	5	19	20.5	29	16	1.6	MIS 16L 3*3
	KCT8546Q	5.15 - 5.85	5	19.5	20.5	30	16	1.7	QFN 16L 2.5*2.5
	KCT8546QL	5.15 - 5.85	3.3	16	17.5	29.5	16.5	1.8	QFN 16L 2.5*2.5
★	KCT8576HE	5.15 - 5.85	5	21	23	30.5	15.5	1.8	QFN 16L 2.5*2.5
	KCT8574HE	5.15 - 5.85	3.3	18	19.5	30	16.5	1.7	QFN 16L 2.5*2.5

HE Line | Wi-Fi 6 High-End 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)
KCT8243HE	2.4 - 2.5	5	22.5	24.5	33.5	15	1.5	QFN 24L 3*5
KCT8248HE	2.4 - 2.5	5	21.5	23.5	33.5	16	1.5	QFN 24L 3*5
★ KCT8248HE-1	2.4 - 2.5	5	23	24.5	33.5	15	1.5	LGA 24L 3*5
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
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
KCT8285HE	2.4 - 2.5	5	23	24.5	34	15.5	1.5	MIS 16L 3*3
KCT8239HE	2.4 - 2.5	5(3.3~5V)	22.5	23.5	30.5	16	1.4	QFN 16L 3*3
★ KCT8247HE-1	2.4 - 2.5	5	21	22.5	30	15.5	1.5	MIS 16L 3*3
KCT8246QL	2.4 - 2.5	3.3	17	19.5	29.5	15	1.6	QFN 16L 3*3

SD & SE LINE | Wi-Fi 6 High Cost-performance 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)
ES	KCT8221SE	2.4 - 2.5	5 3.3	22 19	23.5 20.5	32 32	13.5 13.5	1.6 1.6	QFN 16L 2.3*2.3
ES	KCT8521SE	5.15 - 5.85	5	21	23.5	31.5	15.5	1.6	QFN 16L 3*3
★	KCT8539SE-1	5.15 - 5.85	5	21.5	23	30.5	15.5	1.9	QFN 16L 3*3
	KCT8546SE	5.15 - 5.85	5	19.5	22.5	31.5	15.0	2.1	QFN 16L 2.5*2.5
★	KCT8239SD	2.4 - 2.5	5	21.5	23.5	30	15.5	2.5	QFN 16L 3*3
	KCT8245SD	2.4 - 2.5	5	21.5	23.0	31	15	2.5	QFN 16L 2.5*2.5
★	KCT8531SD-2	5.15 - 5.85	5	21.5	23	30.5	15.5	1.9	QFN 16L 3*3
	KCT8539SD-2	5.15 - 5.85	5	19	22	32	16	2.1	QFN 16L 3*3
	KCT8570SD	5.15 - 5.85	5	21	23	30.5	14.5	2.9	QFN 16L 3*3

H LINE | High-End Wi-Fi 5 FEM – 2.4G & 5GHz

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)
KCT8223H	2.4 - 2.5	5	23.5	24.5	30.5	15.5	1.5	QFN 16L 3*3
KCT8227H	2.4 - 2.5	5	22	23.5	31	15	1.6	QFN 16L 2.5*2.5
KCT8526HP	5.15 - 5.85	5	23	24	31	16.5	1.7	QFN 16L 3*3
KCT8526HS	5.15 - 5.85	5	22.5	24	30	15.5	1.8	QFN 16L 3*3
KCT8527H	5.15 - 5.85	5	22.5	23.5	32	16.5	1.6	QFN 16L 2.5*2.5
KCT8528H	5.15 - 5.85	5	23.5	25	32	16	1.7	QFN 24L 3*5

D LINE | High Cost-Performance Wi-Fi 5 FEM - 2.4G & 5GHz

	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)
★	KCT8226D-1	2.4 - 2.5	5(3.3~5V)	23	24	30.5	17.5	2.7	QFN 16L 3*3
★	KCT8227D-1	2.4 - 2.5	5(3.3~5V)	23	24	30.5	17	2.6	QFN 16L 2.5*2.5
	KCT8229D-1	2.4 - 2.5	5(3.3~5V)	22.5	23.5	28	15	3.4	LGA 16L 2.5*2.5
	KCT8236D	2.4 - 2.5	5(3.3~5V)	23.5	24.5	30	15.5	2.5	QFN 16L 3*3
	KCT8522D	5.15 - 5.85	5	21.5	22.5	30.5	14	3.0	QFN 16L 3*3
	KCT8523D	5.15 - 5.85	5	22.5	23.5	31.5	15	3.0	QFN 16L 3*3
★	KCT8525D-1	5.15 - 5.85	5	21.5	22.5	31	14	2.8	QFN 16L 2.5*2.5
★	KCT8525D-2	5.15 - 5.85	5	22.5	23.5	31	15	2.1	QFN 16L 2.5*2.5
	KCT8529D-1	5.15 - 5.85	5	22.5	23.5	31	14	2.8	QFN 16L 2.5*2.5
	KCT8533D-1	5.15 - 5.85	3.3	17.5	19.0	29.5	13.5	3.3	QFN 16L 3*3
	KCT8534D-1	5.15 - 5.85	3.3	17.5	19	30	15	3.1	QFN 16L 2.5*2.5

RF Switch

Part No.	Function	Frequency (GHz)	VDD (V)	VC (V)	Tsw (ns)	Interface	P - 0.1dB (dBm)	Insertion Loss (dB)	Isolation (dB)	Package (mm)
KCT2821L	SPDT	1.0-3.0	NA	3.0-3.6	150	GPIO	34	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	SOT-363, 1.25*2.1
KCT2823L-1	SP3T	0.5-7.2	1.65-3.6	1.25-3.6	160	GPIO	32	0.55@ 2.4-2.5 GHz 0.85@ 5.0-6.0 GHz 0.95@ 6.0-7.2 GHz	31@ 2.17-2.69 GHz 25@ 5.0-6.0 GHz 22@ 6.0-7.2 GHz	QFN, 1.5*1.5
KCT2824L	DPDT	0.5-7.125	1.6-4.2	1.6-3.6	120	GPIO	31	0.73@ 2.17-2.69 GHz 1.00@ 5.0-6.0 GHz 1.30@ 6.0-7.2 GHz	35@ 2.17-2.69 GHz 29@ 5.0-6.0 GHz 23@ 6.0-7.2 GHz	DFN, 1.5*1.5
KCT2825L	SPDT	0.4-7.125	2.5-3.6	1.5-3.6	350	GPIO	34	0.40@ 2.17-2.69 GHz 0.60@ 5.0-6.0 GHz 0.64@ 6.0-7.2 GHz	40@ 2.17-2.69 GHz 27@ 5.0-6.0 GHz 25@ 6.0-7.2 GHz	QFN, 1.0*1.0
KCT2825L-1	SPDT	0.5-7.125	1.6-4.2	1.5-3.6	55	GPIO	34	0.45@ 2.17-2.69 GHz 0.65@ 5.0-6.0 GHz 0.80@ 6.0-7.2 GHz	38@ 2.17-2.69 GHz 25@ 5.0-6.0 GHz 25@ 6.0-7.2 GHz	QFN, 1.0*1.0
KCT2829L	SPDT	0.4-7.125	NA	1.6-3.6	55	GPIO	34	0.33@ 2.17-2.69 GHz 0.60@ 5.0-6.0 GHz 0.65@ 6.0-7.2 GHz	35@ 2.17-2.69 GHz 25@ 5.0-6.0 GHz 22@ 6.0-7.2 GHz	DFN, 1.0*1.0

Cable Broadband Switch

Part No.	Function	Frequency (MHz)	VDD (V)	VC (V)	Insertion Loss (dB)	Isolation (dB)	P - 0.1dB (dBm)	Package (mm)
KCT2836L	SPDT	5 - 1794	2.3-5.0	0.6-3.6	0.19@ 1.218 GHz 0.23@ 1.794 GHz	54@ 0.2 GHz 32@ 1.794 GHz	87(dBmV)	QFN, 3.0*3.0
KCT2837L	SPDT	5 - 6000	2.3-5.0	0.6-3.6	0.16@ 0.1 GHz 0.25@ 3.0 GHz 0.70@ 6.0 GHz	37@ 0.1 GHz 26@ 3.0 GHz 17@ 6.0 GHz	39	QFN, 2.0*2.0

Diplexer/BPF

Part No.	Type	Frequency (MHz)	Isolation (dB)	Insertion Loss (dB)	Return Loss (dB)	Attenuation (dB)	Package (mm)
★ KCT2494G93J0JAA-1	Dip	2400-2500 5170-7125	/	0.45 @2.4 - 2.5GHz 0.83 @5.17 – 7.125GHz	0.45 @2.4 - 2.5GHz 0.83 @5.17 – 7.125GHz	29 @5.17 – 7.125GHz 33@2.4 - 2.5GHz	1.6*0.8
★ KCT2494G93T02BD-1	Dip	2400-2500 4900-5950	0.32 @2.4 - 2.5GHz 0.60 @4.9 - 5.95GHz	0.32 @2.4 - 2.5GHz 0.60 @4.9 - 5.95GHz	/	26 @ 5.0 - 5.95GHz 39 @ 2.4 - 2.5GHz	1.6*0.8
★ KCT2494G93T12BD-1	Dip	2400-2500 4900-5950	38 @2.4 - 2.5GHz 26 @4.9 – 6.0GHz	0.32 @2.4 - 2.5GHz 0.60 @4.9 - 5.95GHz	/	0.32 @2.4 - 2.5GHz 0.60 @4.9 - 5.95GHz	1.6*0.8

RF FEM

Part No.	Frequency (GHz)	Voltage (V)	Psat (dBm)	TX Icq (mA)	TX Gain (dB)	RX NF (dB)	Package (mm)
★ KCT8102L	0.86 - 0.93	5 4.2 3.3	HPM32.5 HEM31.0 HPM31.0 HEM29.5 HPM29.0 HEM27.5	60 60 55	HPM32.5 HEM33.0 HPM31.5 HEM33.0 HPM31.5 HEM32.5	1.7 1.7 1.7	LGA 16L 3*3
★ KCT8103L	0.86 - 0.93	5 3.3	32.0 28.0	80 75	33.5 33.0	1.8 1.9	LGA 16L 3*3
RT201	2.4 - 2.5	3.3	22.5	23	24	3.0	QFN 16L 3*3
RT202	2.4 - 2.5	3.3	22.5	18	25	3.0	QFN 16L 3*3
KCT8204L	2.4 - 2.5	3.3	22.5	23	24	3.0	QFN 16L 3*3
KCT8206L	2.4 - 2.5	3.3	22.5	33	24	3.0	QFN 16L 3*3
KCT8206L-1	2.4 - 2.5	3.3	22.5	23	25	3.2	QFN 16L 3*3
★ KCT8207L	2.4 - 2.5	3.3/1.8	21/16	115@+21dB/60@+21dBm	22/19	1.5	LGA20 2.5*2.5
KCT8207L-1	2.4 - 2.5	3.3/1.8	21/16	115@+21dB/60@+21dBm	22/19	1.8	LGA20 2.5*2.5
KCT8208L	2.4 - 2.5	3.3/1.8	26/20	115@+21dB/60@+21dBm	22/19	1.5	LGA20 2.5*2.5
KCT8209L	2.4 - 2.5	3.3	23	90@+20dBm	23	1.5	LGA16 3*3
KCT8210L	2.4 - 2.5	3.3	25	110@+20dBm	23	1.5	LGA16 3*3
KCT8211L	2.4 - 2.5	3.3	23	80@+20dBm	14	1.5	LGA16 2.3*2.3

LNA/SW

	Part No.	Frequency (GHz)	Vcc (V)	TX insertion Loss (dB)	LNA Gain (dB)	NF (dB)	Bypass Loss (dB)	Package (mm)
	KCT4221L	2.4 - 2.5	3.3	1.5	13	2.2	1.5	QFN 16L 2.3*2.3
	KCT4223L	2.4 - 2.5	3.3	0.65	16	2.5	6.5	QFN 16L 2.3*2.3
	KCT4225L	2.4 - 2.5	3.3	0.4	15	1.5	6.0	DFN 8L 1.5*1.5
	KCT4226L	2.4 - 2.5	3.3	0.55	13.5	1.6	5	DFN 8L 1.5*1.5
	KCT4525L	5.1-7.2	3.3	0.65	15	1.8	7.5	DFN 8L 1.5*1.5
	KCT4521L	5.15 - 5.85	3.3	0.4	17	1.9	4.5	QFN 16L 2.3*2.3

WLAN FEM – 2.4G & 5GHz

Part No.	Protocol	Vcc (V)	TX Power @ -35dB (dBm)	TX Icq (mA)	RX NF (dB)	Package (mm)	Qualcomm Platform
KCT8253C	Wi-Fi 5	4.2 3.3	19.5 19	145 125	2.3 2.3	QFN16L 2.3*2.3	MT6631
KCT8553C	Wi-Fi 5	3.3 3.7	18 19	200 210	3.0 3.0	QFN16L 2.3* 2.3	WCN3660B WCN3680B (3rd Generation)
KCT8265ST	Wi-Fi 7	3.85	TXH 23 (-33dB) TXM 20.5 (-33dB) TXL 19 (-33dB)	190 165 100	RXH 1.8	LGA18L 2*2.4	WCN7850 MT6639
★ KCT8865ST	Wi-Fi 7	3.85	TXH 21 (-31dB) TXM 20.5 (-31dB) TXL 19.0(-31dB)	210 185 130	RXH 2.1	LGA16L 2*2	WCN7850 MT6639

LNA

Part No.	Frequency (GHz)	Vcc (V)	LNA Gain (dB)	RX NF (dB)	Bypass Insertion loss(dB)	Current (mA)	Package (mm)
KCT1851SL	5.17-8.23	1.8	14	1.9	1.00 for Wi-Fi 1.15 for UWB	9	LGA9L 1.1*1.1
KCT1821	5-7.125	5/3.3	14.5	1.5	7.5	24/21	DFN6L 1.5*1.5

RF PA

Part No.	APPLICATION	Frequency (GHz)	Vcc (V)	TX Power@ -35dB(dBm)	TX Power@ -30dB(dBm)	TX Gain (dB)	Package (mm)
KCT6526H	Wi-Fi	5.15 - 5.85	5	22.5@1.8% EVM	24.0@3% EVM	32.5	QFN 20L 4*4
KCT6540N	Wi-Fi	5.15 - 5.85	1.8	13.5 (with DPD)	14.0 @-32dB (with DPD)	28.5	QFN 16L 3*3
KCT6103L	Pan-IoT	0.86-0.93	5 3.3	23.5 20.5	25 21.5	34.5 34.0	QFN 16L 3*3

Front-End Module

Part No.	Vcc (V)	Output Power TC1 (dBm)	Gain (dB)	LTE EVM %	ACPR (dBc)	TX Icq (mA)	RX Gain (dB)	RX NF (dB)	Package (mm)
New! AECQ100 KCT7502AT	5	29	HPM31.5 LPM10.5	1.67 Pout≤(Pmax) 1.50 Pout≤(Pmax-3dB)	-36	HPM160 LPM 97	16	2.7	LGA 26L 5*4
KCT7526AT	5	27	31	1.7	-36	165	15.5	1.7	QFN 16L 3*3
KCT7528AT	5	27	30	1.7	-36	195	17	1.8	QFN 24L 3*5

Cat.1 PA

Part No.	Frequency Band	Voltage (V)	Pout Max (dBm)	PA Gain (dB)	PAE %	ACLR (dBc)	Package (mm)
KCT56813	(LTE 34/38/39/40/41)	3.4	HB NTC28 ETC27 MB NTC27.5 ETC26.5 LB NTC27.5 ETC26.5	HB HPM33.5 LPM19 MB HPM29 LPM23 LB HPM31.5 LPM22	HB 26.5 MB 20 LB 29	HB -36 MB -36 LB -36	LGA 22L 3*3
KCT56813-1	(LTE 34/38/39/40/41)	3.4	HB NTC28 ETC27 MB NTC27.5 ETC26.5 LB NTC27.5 ETC26.5	HB HPM33 LPM19 MB HPM28.5 LPM22.5 LB HPM31.5 LPM22	HB 27 MB 20.5 LB 28.5	HB -40 MB -40 LB -40	LGA 22L 3*3
KCT56815	(LTE 34/38/39/40/41)	3.4	HB NTC29 ETC28 MB NTC29 ETC28 LB NTC28 ETC27	HB 30 MB 30 LB 30	TBD	HB -38 MB -38 LB -38	LGA 22L 3*3
KCT56816	(LTE 34/38/39/40/41)	3.4	HB NTC27.5 ETC26.5 MB NTC27.5 ETC26.5 LB NTC27.5 ETC26.5	HB HPM33 LPM19 MB HPM28.5 LPM22.5 LB HPM31.5 LPM22	HB 29 MB 27 LB 30	HB -38 MB -38 LB -40	LGA 22L 3*3

5G NR PAMiF with LNA

Part No.	Frequency Band	Voltage (V)	Pout Max (dBm)	PA Gain (dB)	PAE %	ACLR (dBc)	RX Gain (dB)	RX NF (dB)	Package (mm)
KCT58352	3.3 to 4.2 GHz (NR n77/n78) (LTE 42/43/48)	3.4	HB NTC29 ETC28 MB NTC27 ETC26 LB NTC27 ETC26	HB NTC 30.5 MB NTC 30.5 LB NTC 31	HB 21 MB 17 LB 18.5	HB -36 MB -38 LB -40	17.1@G7	3.1@G7	30L 5*3

Naming Rule

KCT8548HE-1

Function type	
1	LNA
2	Switch
4	LNA+SW
6	PA
7	Automotive C-V2X
8	FEM
56	Cat 1

Frequency band	
1	Sub 1GHz
2	2.4GHz
3	N77/N78 Band
5	5GHz
7	6GHz
8	Dual Band

Protocol / Customization / Function	
C, D, H	Wi-Fi 5 Products
S, SD, HE, SE	Wi-Fi 6 Products
HT, ST	Wi-Fi 7 Products
N, SN	Non-linear FEM
AT	Automotive Products
L	Low Voltage Product
Q, M	Customized Product

Application	
0,1	Bluetooth / ZigBee/ Wi-Sun / Wi-Fi Halow
2,3,4,7,8,9	Wi-Fi Infrastructure
5,6,	Cellular

Thank you

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