



kxcomtech

LEADING Wireless Future

**Kangxi Communication Technologies
Product Portfolio**

2025 Q1

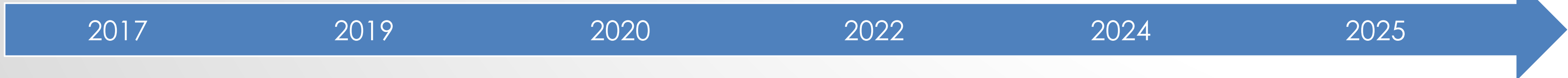
Leading RF Technologies, Bridging Wireless Communication



KCT Product Roadmap

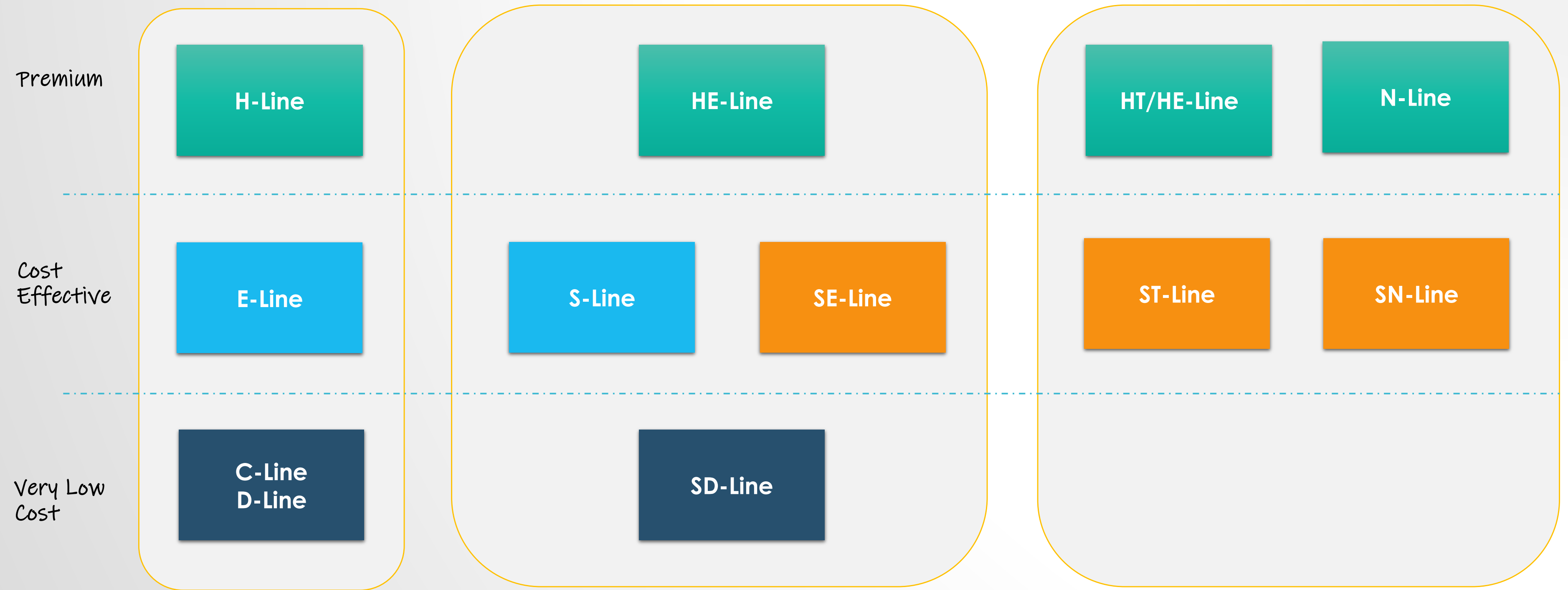


KCT Wi-Fi FEM Technologies Evolution





Comprehensive Wi-Fi Product Portfolio



Wi-Fi 5

Wi-Fi 6/6E

Wi-Fi 7 Linear

Wi-Fi 7 Non-Linear



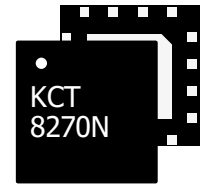
KXcomtech Wi-Fi 7 Non-Linear Product Portfolio for Qualcomm

2.4GHz

5.15-5.925GHz

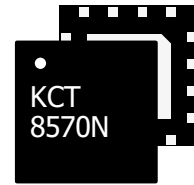
5.9~7.125GHz

Performance with DPD



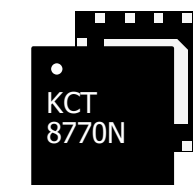
LGA 3mm*3mm, Vdet & CPLR
21.0dBm EHT40 @-43dB
24.5dBm HT20 @-30dB
NF = 1.4dB

REFERENCE DESIGN



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

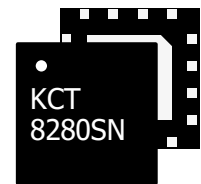
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QFN 3mm*3mm, Vdet & CPLR
19.0dBm EHT320 @-43dB
24.5dBm HT20 @-30dB
NF = 2.0dB

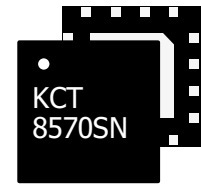
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3.3~5V
Mid High Power
Non-Linear FEM



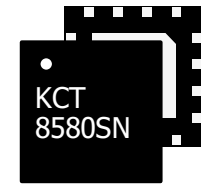
MIS 3mm*3mm, Vdet & CPLR
23.5dBm EHT40 @-43dB
25.5dBm HT20 @-30dB
NF = 1.8dB

REFERENCE DESIGN



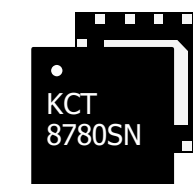
QFN 3mm*3mm, Vdet & CPLR
22.0dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 1.9dB

REFERENCE DESIGN



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

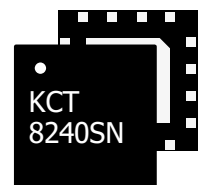
CS May '25



QFN 3mm*3mm, Vdet & CPLR
21.0dBm EHT320 @-43dB
25.5dBm HT20 @-30dB
NF = 2.2dB

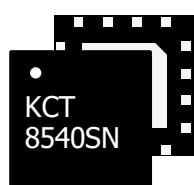
In Development

3.3~5V
Cost-Effective
Non-Linear FEM



MIS 3mm*3mm, Vdet & CPLR
22.5dBm EHT40 @-43dB
24.5dBm HT20 @-30dB
NF = 1.8dB

REFERENCE DESIGN



QFN 3mm*3mm, Vdet & CPLR
19.5dBm EHT160 @-43dB
24.5dBm HT20 @-30dB
NF = 2.1dB

REFERENCE DESIGN

3.3~5V
Low Cost
Non-Linear FEM



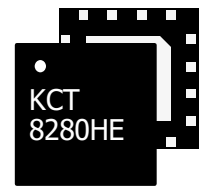


KXcomtech Wi-Fi 7 Linear Product Portfolio for Qualcomm

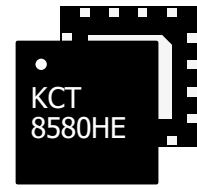
2.4GHz

5.15-5.925GHz

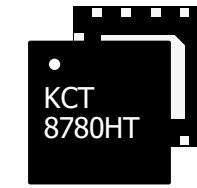
5.9~7.125GHz



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



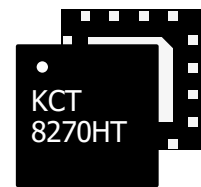
QFN 3x3mm, CPLR & Vdet
20.0dBm EHT160 @-43dB
25.5 dBm HT20 @-30dB
NF = 1.8dB



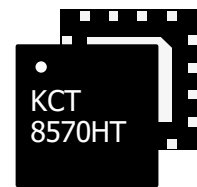
QFN 3mmx3mm, CPLR & Vdet
18.0dBm EHT320 @-43dB
24.0dBm HT20 @-30dB
NF = 2.2dB

In Development

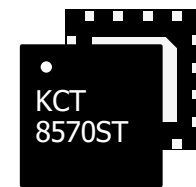
5V High Power Linear FEM



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

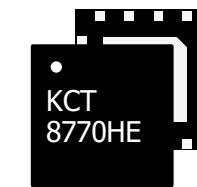


QFN 3x3mm, CPLR & Vdet
20.0dBm EHT160 @-43dB
24.0dBm HT20 @-30dB
NF = 1.8dB



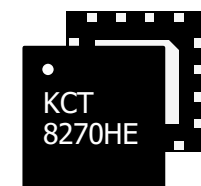
New

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

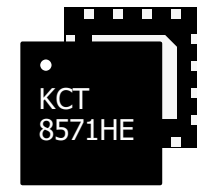


QFN 3mmx3mm, CPLR & Vdet
15.5dBm EHT320 @-43dB
23.5dBm HT20 @-30dB
NF = 1.8dB

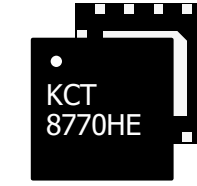
5V Mid-High Power Linear FEM



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

3.3V Mid-High Power Linear FEM





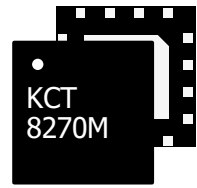
KXcomtech Wi-Fi 7 Non-Linear Product Portfolio for MTK

2.4GHz

5.15-5.925GHz

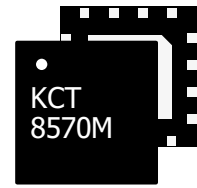
5.9~7.125GHz

Qualified on MTK Eagle BE19000, Kite BE7200/5000



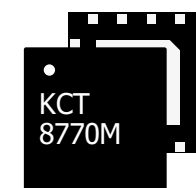
LGA 3x3mm, Vdet & CPLR
21dBm EHT40 @-43dB wDPD
24.5dBm HT20 @-30dB wDPD
NF = 1.4dB

MEDIATEK
DRL



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

MEDIATEK
DRL

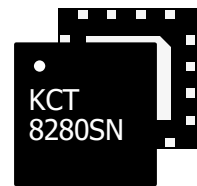


QFN 3x3mm, Vdet & CPLR
19dBm EHT320 @-43dB wDPD
24dBm HT20 @-30dB wDPD
NF = 2.0dB

MEDIATEK
DRL

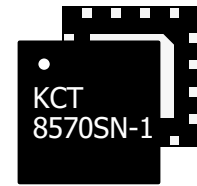
3.3~5V
Non-Linear FEM

Qualified on MTK Kite BE7200/5000, Griffin BE3600



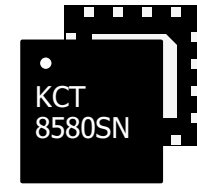
MIS 3mm*3mm, Vdet & CPLR
23.5dBm EHT40 @-43dB
25.5dBm HT20 @-30dB
NF = 1.8dB

MEDIATEK
DRL



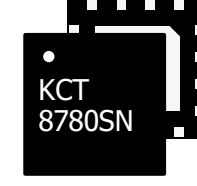
QFN 3mm*3mm, Vdet & CPLR
22.0dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 1.9dB

CS Apr '25



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

CS May '25



QFN 3mm*3mm, Vdet & CPLR
19.0dBm EHT320 @-43dB
25.5dBm HT20 @-30dB
NF = 2.2dB

In
Development

Performance with DPD

3.3~5V
Cost-Effective
Non-Linear FEM

MEDIATEK



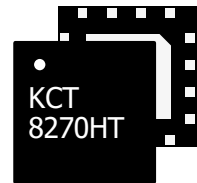
KXcomtech Wi-Fi 7 Linear Product Portfolio for MTK

2.4GHz

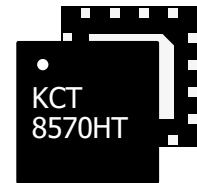
5.15-5.925GHz

5.9~7.125GHz

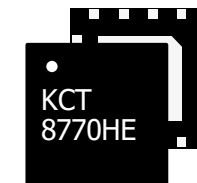
Qualified on MTK Kite BE7200/5000



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

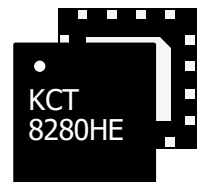


QFN 3x3mm, Vdet & CPLR
20.0dBm EHT160 @-43dB
24.0dBm HT20 @-30dB
NF = 1.8dB

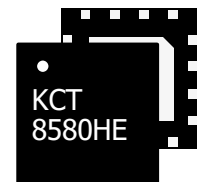


QFN 3x3mm, CPLR & Vdet
15.5dBm EHT320 @-43dB
23.5dBm HT20 @-30dB
NF = 1.8dB

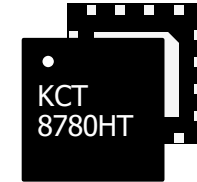
5V
Mid-High Power
Linear FEM



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



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



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

*In
Development*

5V
High Power
Linear FEM

MEDIATEK

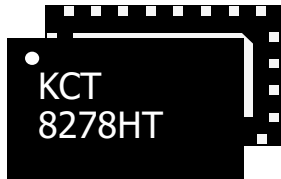


KXcomtech Wi-Fi 7 Product Portfolio for Broadcom

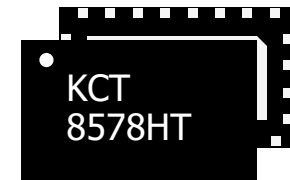
2.4GHz

5.15-5.925GHz

5.9~7.125GHz



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

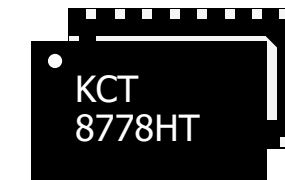
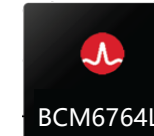


LGA 3x5mm, CLPR & Vdet
19.5dBm EHT160 @-43dB
24.0dBm HT20 @-30dB
NF = 2.3dB



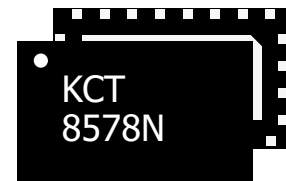
New

QFN 3x5mm, CLPR & Vdet
17.5dBm EHT160 @-43dB
23.5dBm HT20 @-30dB
NF = 2.2dB

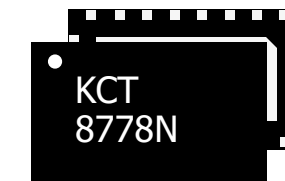


LGA 3x5mm, CLPR & Vdet
14dBm EHT320 @-45dB
23.0dBm HT20 @-30dB
NF = 2.4dB

5V
Linear FEM



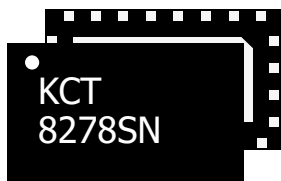
LGA 3x5mm, CLPR & Vdet
22.0dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 1.8dB



ES

LGA 3x5mm, CLPR & Vdet
17.0dBm EHT320 @-43dB
25.0dBm VHT80 @-30dB
NF = 2.2dB

3.3~5V
Non-Linear FEM



LGA 3x5mm, CLPR & Vdet
21.5dBm EHT40 @-43dB
25.5dBm HT20 @-30dB
NF = 2.0dB



CS APR '25

LGA 3x5mm, CLPR & Vdet
22.0dBm EHT160 @-43dB
25.0dBm HT20 @-30dB
NF = 2.2dB



In Development

LGA 3x5mm, CLPR & Vdet
18.0dBm EHT320 @-43dB
25.0dBm VHT80 @-30dB
NF = 2.4dB

3.3~5V
Cost-effective
Non-Linear FEM

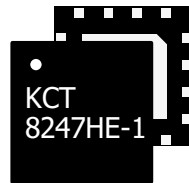




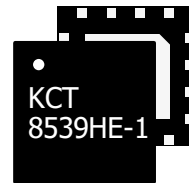
KXcomtech Wi-Fi 6 Linear Product Portfolio

2.4GHz

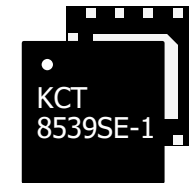
5.15-5.925GHz



MIS 3x3mm, Vdet
20dBm/ HE40 @-43dB
24dBm /HT20 @-30dB
NF = 1.5dB

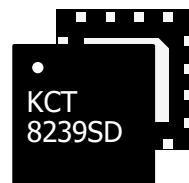


QFN 3x3mm, Vdet
18.0dBm /HE160 @-43dB
24.5dBm /HT20 @-30dB
NF = 2.1dB

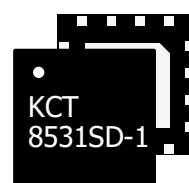


New CS Mar '25

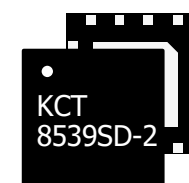
QFN 3x3mm, Vdet
18.0dBm HE160 @-43dB
24.5dBm HT20 @-30dB
NF = 2.5dB



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



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



QFN 3x3mm, Vdet
17.5dBm HE160 @-43dB
23.5dBm HT20 @-30dB
NF = 2.1dB

5V Linear FEM

5V Low Cost Linear FEM

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	1.8	MIS 16L 3*3
KCT8280SN	2.4 - 2.5	5(3.3~5V)	23	23.5	31	16.5	1.8	MIS 16L 3*3
New! KCT8540SN-1	5.1 - 5.9	5(3.3~5V)	22	22.5	30	16	2.1	QFN 16L 3*3
★ KCT8570SN / SN-1	5.1 - 5.9	5(3.3~5V)	22	23	29.5	15.5	1.9	QFN 16L 3*3
KCT8278SN	2.4 - 2.5	5	22.5	23.5	30.5	16	2	LGA 24L 3*5
KCT8578SN	5.1 - 5.9	5	22	23	30.5	15	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)
★ KCT8570ST	5.1 - 5.9	5	19	21.5	30.5	15.5	2.0	QFN 16L 3*3
KCT8568ST	5.1 - 5.9	5	17.5	20.5	30	15.5	2.2	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
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 RHM 5 RXH 17 RHM 5	RXH 2.0 RHM 2.5 RXH 2.0 RHM 2.5	LGA 24L 3*5
ES KCT8778N	5.9 - 7.1	5(3.3~5V)	18	22.5	33	RXH 14 RHM 4	RXH 2.3 RHM 2.9	LGA 24L 3*5
KCT8580N	5.1-5.9	5(3.3~5V)	22	23.5	30	16.5	1.8	QFN 16L 3*3

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
KCT8278HT	2.4 - 2.5	5	22	23	34	18.5	1.8	LGA 24L 3*5
★ KCT8280HE	2.4 - 2.5	5	22	23	31.5	14	1.6	LGA 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
KCT8568HT	5.1-5.9	5	19.5	21	31.5	15.5	2.3	LGA 24L 3*5
KCT8578HT	5.1 - 5.9	5	18.5	20.5	30	17.5	2.2	LGA 24L 3*5
KCT8770HE	5.9 - 7.1	5 3.3	15.5 13	20 18	30 29.5	14 13	1.8 1.8	QFN 16L 3*3
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
KCT8728HE	5.9 - 7.1	5	19.5	22	30.0	13.5	1.9	LGA 24L 3*5

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(3.3~5V)	21.5	23	31	16.5	1.7	QFN 16L 3*3
★ KCT8539HE-1	5.15 - 5.85	5(3.3~5V)	21.5	23	31	16.5	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
★ 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)
★ KCT8539SE-1	5.15 - 5.85	5	20.5	23	30.5	15	2.5	QFN 16L 3*3
KCT8546SE	5.15 - 5.85	5	19.5	22.5	31.5	14.5	2.1	QFN 16L 2.5*2.5
★ KCT8239SD	2.4 - 2.5	5	20.5	21.5	30	15.5	2.5	QFN 16L 3*3
KCT8245SD	2.4 - 2.5	5	20.5	21.5	31	15	2.5	QFN 16L 2.5*2.5
★ KCT8531SD-1	5.15 - 5.85	5	22	23	30.5	13.5	3.0	QFN 16L 3*3
KCT8539SD-1	5.15 - 5.85	5	22	23	30.5	13.5	3.0	QFN 16L 3*3
KCT8539SD-2	5.15 - 5.85	5	19	23.5	31	16	2.5	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
KCT8523H	5.15 - 5.85	5	22.5	24	30	15.5	2.0	QFN 16L 3*3
KCT8526HP	5.15 - 5.85	5	23	24	31	16.5	1.7	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 - 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)
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	5.15 - 5.85	3.3	18	19.5	30.5	14	3.2	QFN 16L 2.5*2.5
KCT8534D-1	5.15 - 5.85	3.3	17.5	19	30	15	3.1	QFN 16L 2.5*2.5

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

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	23.5	24.5	30	15.5	2.5	QFN 16L 3*3

C LINE | High Cost-Effective Wi-Fi 5 FEM Solution - 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)
KCT8535C	5.15 - 5.85	5 3.3	21.5 18	22.5 19	28 28	12 12	3.0+ 3.0+	LGA 12L 2*2
KCT8537C	5.15 - 5.85	5	21	22	29	13	3.0	QFN 16L 2.3*2.3

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-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
KCT2826L	SPDT	0.1-6.0	NA	3.0-3.6	250	GPIO	33	0.55@ 2.4-2.5 GHz 0.60@ 0.1-3.0 GHz 0.80@ 3.0-6.0 GHz	34@ 2.4-2.5 GHz 33@ 0.1-3.0 GHz 23@ 3.0-6.0 GHz	DFN, 1.5*1.5
KCT2827L-1	SPDT	0.1-7.125	1.6-3.6	1.6-3.6	400	GPIO	39.5	0.40@ 2.17-2.69 GHz 0.75@ 5.0-6.0 GHz 0.85@ 6.0-7.2 GHz	29@ 2.17-2.69 GHz 20@ 5.0-6.0 GHz 18@ 6.0-7.2 GHz	DFN, 1.5*1.5
KCT2828L	SPDT	1.0-6.0	NA	3.0-3.6	250	GPIO	33	0.40@ 2.4-2.5 GHz 0.50@ 1.0-3.0 GHz 0.70@ 3.0-6.0 GHz	29@ 2.4-2.5 GHz 28@ 1.0-3.0 GHz 26@ 3.0-6.0 GHz	DFN, 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)	Isolation (dB)	Insertion Loss (dB)	Return Loss (dB)	P - 0.1dB (dBm)	Package (mm)
★ KCT2836L	SPDT	5 - 1794	3.3	56 @5 - 204MHz 36 @1218-1794MHz	0.21 @5 - 204MHz 0.26 @1218 - 1794MHz	35 @5 - 204MHz 25 @1218 - 1794MHz	87@204 - 1218MHz	QFN 12L 3*3
ES KCT2837L	SPDT	5 - 6000	3.3	62 @5 - 100MHz 23 @5000 - 6000MHz	0.24 @5-100MHz 0.45 @5000 - 6000MHz	42 @5 - 100MHz 15 @5000 - 6000MHz	36@5800 MHz	QFN 12L 2*2

Diplexer/BPF

Part No.	Type	Frequency (MHz)	Isolation (dB)	Insertion Loss (dB)	Return Loss (dB)	Attenuation (dB)	Package (mm)
★ KCT2494G93T02BC	Dip	2400-2500 4900-5950	24 @ 0.03 - 2.7GHz 31 @ 4.9 - 5.95GHz	0.47 @2.4 - 2.5GHz 0.55 @4.9 - 5.95GHz	24 @ 2.4 - 2.5GHz 21 @ 4.9 - 5.95GHz	32 @ 4.8 - 5.95GHz 24 @ 0.03 - 2.7GHz	1.6*0.8
★ KCT2494G93T12BC	Dip	2400-2500 4900-5950	25 @ 0.03 - 2.7GHz 31 @ 4.9 - 5.95GHz	0.46 @2.4 - 2.5GHz 0.60 @4.9 - 5.95GHz	30 @ 2.4 - 2.5GHz 24 @ 4.9 - 5.95GHz	32 @ 4.8 - 5.95GHz 25 @ 0.03 - 2.7GHz	1.6*0.8
★ KCT2494G93T02BD	Dip	2400-2500 4900-5950	23 @ 0.03 - 2.7GHz 25 @ 4.9 - 5.95GHz	0.53 @2.4 - 2.5GHz 0.59 @4.9 - 5.95GHz	20 @ 2.4 - 2.5GHz 21 @ 4.9 - 5.95GHz	25 @ 4.8 - 5.95GHz 24 @ 0.03 - 2.7GHz	1.6*0.8
★ KCT2494G93T12BD	Dip	2400-2500 4900-5950	23 @ 0.03 - 2.7GHz 25 @ 4.9 - 5.95GHz	0.53 @2.4 - 2.5GHz 0.59 @4.9 - 5.95GHz	20 @ 2.4 - 2.5GHz 21 @ 4.9 - 5.95GHz	25 @ 4.8 - 5.95GHz 24 @ 0.03 - 2.7GHz	1.6*0.8

RF PA

Part No.	Frequency (GHz)	Vcc (V)	TX Power@ -35dB(dBm)	TX Power@ -30dB(dBm)	TX Gain (dB)	Package (mm)
KCT6526H	5.15 - 5.85	5	22.5	24.0	32.5	QFN 20L 4*4
KCT6540N	5.15 - 5.85	1.8	11.5 (w/o DPD)	12.5 @-32dB (w/o DPD)	28.5	QFN 16L 3*3

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	HPM32.5 HEM31.0	60	HPM32.5 HEM33.0	1.7	LGA 16L 3*3
		4.2	HPM31.0 HEM29.5	60	HPM31.5 HEM33.0	1.7	
		3.3	HPM29.0 HEM27.5	55	HPM31.5 HEM32.5	1.7	
★ KCT8103L	0.86 - 0.93	5	32.0	80	33.5	1.8	LGA 16L 3*3
		3.3	28.0	75	33.0	1.9	
★ 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	21.5	33	24	3.0	QFN 16L 3*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
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
KCT8552C	Wi-Fi 5	3.3	17.5	200	3.0	QFN16L 2.3*2.3	QCA6164A QCA6174A QCA9377
★ 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)
★ KCT8253C	Wi-Fi 5	4.2 3.3	19.5 19	145 125	2.3 2.3	QFN16L 2.3*2.3	MT6631
★ KCT8265ST	Wi-Fi 7	3.85	TXH 22.5(-33dB) TXHD 23.0(-33dB) TXL 20.0(-33dB)	185 130 95	RXH 2.0	LGA18L 2*2.4	WCN7850 MT6639

Automotive V2X

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)
ES KCT7502AT	5	28.5	27	1.67	-43.4	200	14	2.1	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

Naming Rule

KCT8548HE-1

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

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



Leading RF Technologies, Bridging Wireless Communication

Thank you



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