

Datasheet

COCOMM

R554



Baseband

Chip platform	MTKT750
Processor	Cortex-A55 Quad
Processor speed	2 GHz
Memory	RAM: 1GB ROM: 1GB

RF

Chipset	MT6190
Antennas	Internal (WiFi /MIMO)

Bands	UMTS: B1/B2/B5/B8 5G: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78 LTE: B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42/B43 WCDMA: B1/B5/B8
MIMO for wireless	5G NR DL 4*4 MIMO LTE DL 4*4MIMO
Carrier Aggregation	5G CA: SA_n1A / SA_n3A / SA_n5A / SA_n7A / SA_n8A / SA_n20A / SA_n28A / SA_n38A / SA_n40A / SA_n41A / SA_n77A / SA_n78A / SA_n1B / SA_n41C / SA_n77C / SA_n78C / CA_n1A-n3A / CA_n1A-n5A / CA_n1A-n7A / CA_n1A- n8A / CA_n1A-n28A / CA_n1A-n40A / CA_n1A-n41A / CA_n1A-n77A / CA_ n1A-n78A / CA_n3A-n5A / CA_n3A-n8A / CA_n3A-n28A / CA_n3A-n38A / CA_n3A-n40A / CA_n3A-n41A / CA_n3A-n77A / CA_n3A-n78A / CA_n5A- n78A / CA_n7A-n8A / CA_n7A-n78A / CA_n8A-n40A / CA_n8A-n78A / CA_n20A-n38A / CA_n20A-n41A / CA_n20A-n78A / CA_n28A-n38A / CA_n28A-n40A / CA_n28A-n41A / CA_n28A-n78A / CA_n38A-n78A / CA_ n40A-n78A / CA_n41A-n41A / CA_n41A-n78A / CA_n78A-n78A / DC_1A_ n1A / DC_1A_n3A / DC_1C_n3A / DC_1A_n5A / DC_1A_n7A / DC_1A_n8A / DC_1A_n20A / DC_1A_n28A / DC_1A_n38A / DC_1C_n38A / DC_1A_n40A / DC_1A_n41A / DC_1A_n41C / DC_1A_n77A / DC_1A_n77C / DC_1A_n78A / DC_1A_n78C / DC_3A_n1A / DC_3C_n1A / DC_3A_n3A / DC_3A_n5A / DC_3C_n5A / DC_3A_n7A / DC_3C_n7A / DC_3A_n8A / DC_3A_n20A / DC_3A_n28A / DC_3C_n28A / DC_3A_n38A / DC_3C_n38A / DC_3A_n40A / DC_3C_n40A / DC_3A_n41A / DC_3A_n41C / DC_3A_n77A / DC_3A_n78A / DC_3A_n78C / DC_3C_n78A / DC_5A_n1A / DC_5A_n3A / DC_5A_n7A / DC_5A_n38A / DC_5A_n78A / DC_7A_n1A / DC_7C_n1A / DC_7A_n3A / DC_7C_n3A / DC_7A_n5A / DC_7C_n5A / DC_7A_n7A / DC_7A_n8A / DC_7A_n20A / DC_7A_n28A / DC_7C_n28A / DC_7A_n77A / DC_7A_n78A / DC_7A_n78C / DC_8A_n1A / DC_8A_n3A / DC_8A_n7A / DC_8A_n38A / DC_8A_n40A / DC_8A_n41A / DC_8A_n77A / DC_8A_n78A / DC_8A_n78C / DC_20A_n1A / DC_20A_n3A / DC_20A_n7A / DC_20A_n28A / DC_20A_ n38A / DC_20A_n40A / DC_20A_n41A / DC_20A_n77A / DC_20A_n78A / DC_20A_n78C / DC_28A_n1A / DC_28A_n3A / DC_28A_n7A / DC_28A_ n20A / DC_28A_n40A / DC_28A_n41A / DC_28A_n77A / DC_28A_n78A / DC_28A_n78C / DC_38A_n1A / DC_38A_n3A / DC_38A_n7A / DC_38A_ n20A / DC_38A_n40A / DC_38A_n41A / DC_38A_n77A / DC_38A_n78A / DC_38A_n78C / DC_40A_n1A / DC_40A_n3A / DC_40A_n7A / DC_40A_ n41A / DC_40A_n77A / DC_40A_n78A / DC_40A_n78C / DC_41A_n1A / DC_41A_n3A / DC_41A_n7A / DC_41A_n28A / DC_41A_n40A / DC_41A_n77A / DC_41A_n78A / DC_41A_n78C / DC_77A_n1A / DC_77A_n3A / DC_77A_ n7A / DC_77A_n8A / DC_77A_n20A / DC_77A_n28A / DC_77A_n38A / DC_77A_n40A / DC_77A_n41A / DC_77A_n78A / DC_78A_n1A / DC_78A_n3A / DC_78A_n7A / DC_78A_n20A / DC_78A_n28A / DC_78A_n38A / DC_78A_ n40A / DC_78A_n41A / DC_78A_n77A / DC_78A_n78A

4G CA:

CA_1C / CA_3C / CA_5B / CA_7C / CA_38C / CA_40C / CA_41C / CA_42C
 / CA_43C / CA_1A-1A / CA_3A-3A / CA_5A-5A / CA_7A-7A / CA_38A-38A
 / CA_40A-40A / CA_41A-41A / CA_41A-41C / CA_41C-41A / CA_41C-41C /
 CA_42A-42A / CA_42A-42C / CA_42C-42A / CA_42C-42C / CA_1A-3A /
 CA_1A-3C / CA_1A-5A / CA_1A-7A / CA_1A-7C / CA_1A-8A / CA_1A-20A /
 CA_1A-28A / CA_1A-32A / CA_1A-38A / CA_1A-38C / CA_1A-40A / CA_1A-
 40C / CA_1A-41A / CA_1A-41C / CA_1A-42A / CA_1A-42C / CA_3A-5A /
 CA_3C-5A / CA_3A-7A / CA_3A-7C / CA_3C-7A / CA_3C-7C / CA_3A-
 8A / CA_3C-8A / CA_3A-20A / CA_3C-20A / CA_3A-28A / CA_3C-28A
 / CA_3A-32A / CA_3C-32A / CA_3A-38A / CA_3A-38C / CA_3C-38A
 / CA_3A-40A / CA_3C-40A / CA_3A-40C / CA_3A-41A / CA_3A-41C /
 CA_3A-42A / CA_3A-42C / CA_5A-7A / CA_5A-41A / CA_7A-8A / CA_7A-
 20A / CA_7C-20A / CA_7A-28A / CA_7C-28A / CA_7A-32A / CA_8A-32A
 / CA_8A-38A / CA_8A-40A / CA_8A-41A / CA_8A-41C / CA_8A-42A /
 CA_20A-32A / CA_20A-28A / CA_20A-38A / CA_20A-40A / CA_28A-38A
 / CA_28A-40A / CA_28A-40C / CA_28A-41A / CA_28A-41C / CA_28A-42A
 / CA_28A-42C / CA_41A-42A / CA_41A-42C / CA_41C-42A / CA_41C-42C /
 CA_1A-1A-3A / CA_1A-1A-7A / CA_1A-1A-28A / CA_1A-3A-3A / CA_1A-3A-5A
 / CA_1A-3C-5A / CA_1A-3A-7A / CA_1A-3A-7C / CA_1A-3C-7A / CA_1A-
 3C-7C / CA_1A-3A-8A / CA_1A-3C-8A / CA_1A-3A-20A / CA_1A-3C-20A /
 CA_1A-3A-28A / CA_1A-3C-28A / CA_1A-3A-32A / CA_1A-3A-38A / CA_1A-
 3A-38C / CA_1A-3A-40A / CA_1A-3A-40C / CA_1A-3A-41A / CA_1A-3A-41C
 / CA_1A-3A-42A / CA_1A-3A-42C / CA_1A-5A-7A / CA_1A-7A-7A / CA_1A-
 7A-8A / CA_1A-7A-20A / CA_1A-7C-20A / CA_1A-7A-28A / CA_1A-7C-28A /
 CA_1A-7A-32A / CA_1A-8A-38A / CA_1A-8A-40A / CA_1A-8A-42A / CA_1A-
 20A-28A / CA_1A-20A-32A / CA_1A-20A-38A / CA_1A-28A-40A / CA_1A-
 28A-40C / CA_1A-28A-42A / CA_1A-28A-42C / CA_3A-3A-7A / CA_3A-3A-
 8A / CA_3A-3A-20A / CA_3A-3A-28A / CA_3A-3A-38A / CA_3A-3A-41A /
 CA_3A-5A-7A / CA_3A-7A-7A / CA_3A-7A-8A / CA_3A-7A-20A / CA_3A-
 7C-20A / CA_3C-7A-20A / CA_3A-7A-28A / CA_3A-7C-28A / CA_3C-7A-
 28A / CA_3C-7C-28A / CA_3A-7A-32A / CA_3C-7A-32A / CA_3A-8A-32A
 / CA_3A-8A-38A / CA_3C-8A-38A / CA_3A-8A-40A / CA_3A-8A-41A /
 CA_3A-8A-42A / CA_3A-20A-28A / CA_3A-20A-32A / CA_3C-20A-32A /
 CA_3A-20A-38A / CA_3A-28A-40A / CA_3A-28A-40C / CA_3A-28A-41A /
 CA_3A-28A-41C / CA_3A-28A-42A / CA_3A-28A-42C / CA_3A-40A-40A /
 CA_7A-7A-8A / CA_7A-7A-20A / CA_7A-7A-28A / CA_7A-8A-32A / CA_7A-
 20A-28A / CA_7A-20A-32A / CA_1A-1A-3A-3A / CA_1A-1A-3A-7A / CA_1A-
 1A-3A-28A / CA_1A-3A-3A-20A / CA_1A-3A-3A-28A / CA_1A-3A-5A-7A /
 CA_1A-3A-7A-7A / CA_1A-3A-7A-8A / CA_1A-3A-7A-20A / CA_1A

Carrier Aggregation

Max. Transmitter Power	WCDMA: Class 3 (24 dBm +1/-3 dB) LTE-FDD: Class 3 (23 dBm ±2 dB) LTE-TDD: Class 3 (23 dBm ±2 dB) 5G NR: Class 3 (23 dBm ±2 dB) 5G NR n40/n41/n77/n78 bands UL MIMO HPUE 2: Class 2 (26 dBm +2/-3 dB)
Wi-Fi band	2400 MHz-2483. 5MHz/5150MHz-5850MHz
MIMO for Wi-Fi	2.4G 802.11.b/g/n MIMO 4*4 5G 802.11.ac/ax MIMO 4*4
5G NR SA	5G NR DL: 4.67 Gbps (4*4 MIMO, 256QAM) 5G NR UL: 1.25 Gbps (2*2 MIMO, 256QAM)

5G NR NSA	5G NR NSA DL: 3.74 Gbps (LTE 4*4 MIMO, 256QAM, 20 Layers; 5G NR 4*4 MIMO, 256QAM) 5G NR NSA UL: 1.26 Gbps (LTE 1*1 SISO, 256QAM; 5G NR 1*1 SISO, 256QAM)
LTE	LTE DL: 1.6 Gbps (4*4 MIMO, 256QAM, 20 Layers) LTE UL: 0.211 Gbps (1*1 SISO, 256QAM, 2 Layers)
WCDMA/HSPA/DC-HSPA	DC-HSPA: DL 42 Mbps HSPA: 21.6 Mbps (DL)/5.76 Mbps (UL) WCDMA: 384 kbps (DL)/384 kbps (UL)
Wi-Fi max. client	128 users per band (256 users max.)
Wi-Fi standard	Wi-Fi 6 802.11 a/b/g/n/ac/ax 2.4 GHz y 5 GHz de doble banda, (4*4 MIMO) OFDMA MU-MIMO, 160MHz
Wi-Fi security	OPEN & WPA-PSK & WPA2-PSK & WPA-PSK/WPA2-PSK; WPA3
Wi-Fi rate	802.11b Up to 11 Mbps 802.11g Up to 54 Mbps 802.11n Up to 300 Mbps 802.11ac Up to 867 Mbps 802.11ax AX3600 3600Mbps (2400 Mbps in 5 GHz, 1200 Mbps in 2.4 GHz)

Hardware

USIM/SIM Slot	Nano SIM support. Standard 6 PIN SIM card interface 3 V SIM card and 1.8 V SIM card
LAN/WAN	1x 1Gb WAN/LAN autoadapte 1x 1Gb LAN
TEL	x1 RJ11 Port (for voice call)
MMCX	1x RX 1x TX
Buttons	Power button WPS button Reset (PIN hole)
Led indicator	5G status 4G status Wi-Fi Ethernet Status Power Status

Power Supply

Power adapter	12V 2A
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Environment

Operating temperature	-20 to 65 °C
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Storage temperature	-40 to 80 °C
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Humidity	5% to 95%
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