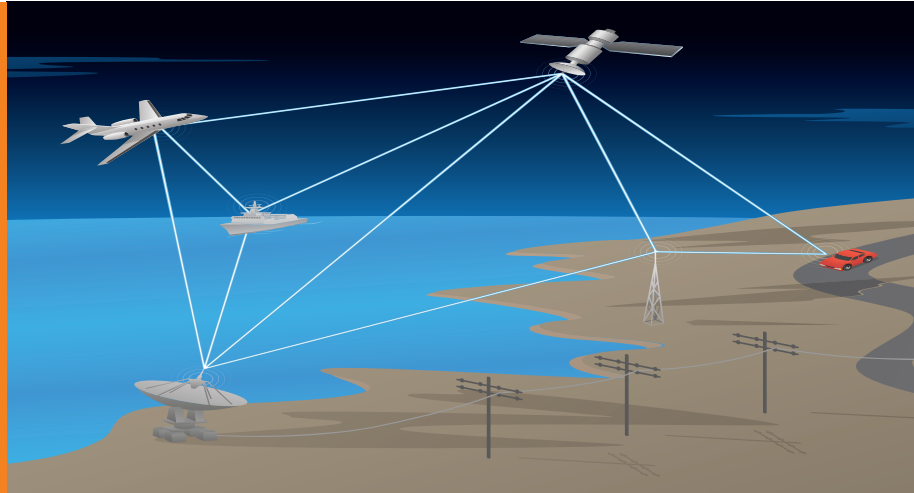


High performance
MMICs in L, S, C, X,
Ku and Ka Bands



UMS RF & mm-Wave low noise, power amplifiers and solutions for Satellite Communication are associated with an excellent quality and reputation since a long time.

- Our GaN for better SWaP and GaAs technologies meet your needs for LNAs, PAs and frequency conversion for SATCOM terminals. Thanks to our space evaluated technologies and space grade product qualification flow, our products are well suited for on-board satellite equipment.
- We support our customers in their move to higher frequency and wider bandwidths with regular new product introductions in Ka and Q/V bands. Thanks to the wide packaging solutions developed in UMS, we are covering both traditional GEO and new LEO uplinks and downlinks both on satellite and within stationary ground or mobile equipments.



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PRODUCT SELECTION

AMPLIFIER - HPA

Part Number	Frequency (GHz)	Gain (dB)	IP3 (dBm)	Psat (dBm)	PAE %	Bias mA @ V	Case
CHA8012-99F	5.2-6	22	-	41.5	43 @ 3dBc	2100 @ 8	Die
CHA8054-99F	7.7-8.6	27	-	43.6	50 @ 7dBc	900 @ 28	Die
CHA6710-FAB/99F	8-12.75	23.5	-	37.4	36 @ Psat	200 @ 25	Hermetic SMD / Die
CHA8610-99F	8.5-11	24	-	41.8	40 @ Psat	680 @ 30	Die
CHA8611-99F	8.5-11	24	-	42.5	43 @ Psat	800 @ 25	Die
CHA6550-98F/QXG	17- 23.6	22	39	34	20 @ Psat	1300 @ 6	Die / QFN
CHA6551-99F	17-24	22	39	32	25 @ Psat	880 @ 4	Die
CHA6652-98F/QXG	21-27.5	22.5	39	33	25 @ Psat	1300 @ 6	Die / QFN
CHA6653-98F/QXG	27-33.5	20	38	33	23 @ Psat	900 @ 6	Die / QFN

AMPLIFIER - LNA

Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (+/-dB)	NF (dB)	Bias mA @ V	Case
CHA3801-FAB	1-2	28	0.5	1.5	70 @ 5	Hermetic SMD
CHA3024-FDB	2-22	14.5	-	3.25	100 @ 5	Hermetic SMD
CHA3666-FAB/99F/QAG	6-17	21	0.5	1.8	80 @ 4	Hermetic SMD / Die / QFN
CHA3656-QAG	6-17	20	0.5	1.7	68 @ 3	QFN
CHA3688aQDG	12.5-30	26	2	2	85 @ 4	QFN
CHA2069-FAB	16-32	22	1	2.5	55 @ 4.5	Hermetic SMD
CHA2362-98F	26-40	22	-	2	65 @ 4	Die

AMPLIFIER - MPA

Part Number	Frequency (GHz)	Gain (dB)	IP3 (dBm)	Psat (dBm)	Bias mA @ V	Case
CHA4107-99F / QDG	4.5-6.5	24.5	-	26	115 @ 8	Die / QFN
CHA5266-FAB	10-16	23.5	35.5	27.5	320 @ 5	Hermetic SMD
CHA4253-FAB / QQG	17-21	26	33	24.5	230 @ 4	Hermetic SMD / QFN
CHA3395-QDG	21-29.5	24	32	22	180 @ 4	QFN
CHA3396-QDG	27-33.5	22	30	21	155 @ 4	QFN

ATTENUATOR - ANALOG

Part Number	Frequency (GHz)	Insertion Loss (dB)	Amplitude Control (dB)	P-1dB IN (dBm)	Case
CHT3091-FAB	DC-14	2.5	20.5	15	Hermetic SMD
CHT4690-FAB	5-30	3.5	37	25	Hermetic SMD
CHT4660-QAG	DC-16	2	30	24	QFN

DOWN - CONVERTER (IF Bandwidth DC-3.5GHz)

Part Number	RF Band. (GHz)	LO Band. (GHz)	Conv. Gain (dB)	NF (dB)	LO Input Power (dBm)	Bias mA @ V	Case
CHR3762-QDG	5.5-9	4-12	14	1.7	5	100 @ 3	QFN
CHR3352-QEG	12-16	8.5-19.5	13	2.7	0	250 @ 4	QFN
CHR3693-FAB/99F/QDG	21-26.5	9-14	15	3.2	2	160 @ 4	Hermetic SMD/Die/QFN

MULTIPLIER

Part Number	Xn	Frequency (GHz)	Output Bandwidth (GHz)	Input Power (dBm)	Output Power (dBm)	Bias mA @ V	Case
CHX2193-FAB	X2	6.25-8.25	12.5-16.5	10	14	60 @ 3.5	Hermetic SMD

For products covering Q/V bands, you may refer to our [selection guide](#) - Refer to our full datasheets on : www.ums-rf.com



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