

Comparison of GNSS RF Front-End ICs: NT1065, NT1068, NT1066, NT1069-1, NT1062

Features			NT1065	NT1068	NT1066	NT1069-1	NT1062
Operating frequency	L1 band	1530–1620MHz	+	+	+	+	+
	L2, L3, L5 bands	1150–1300MHz	+	+	+	+	+
	S band	2460–2530MHz	–	–	+	+	–
	DGPS	65–110MHz, 160–240MHz, 470–862MHz	–	–	+	–	–
Simultaneous reception of S band and L1, L5 bands			–	–	+	–	–
Number of ICs to cover all L-band signals			2	2	1	not relevant	5
Number of RF inputs of simultaneous operation			4	4	4	1	2
Number of IF data outputs			4	4	7	1	2
Maximum baseband bandwidth			31MHz SSB	31MHz SSB	60MHz DSB	50MHz SSB	20MHz SSB
Channel output type		Real	+	+	+	+	+
		IQ	–	–	+	–	–
Channel output data interface type		Analog differential	+	+	+	+	+
		ADC	2-bit	2-bit	2-bit	–	2-bit
Number of PLLs			2	2	4	–	2
Power consumption per channel over L band operation			67mW	55mW	85mW	290mW	42.5mW
Interface type			SPI	SPI	SPI	parallel CMOS	SPI
Space-time processing (antenna array) application			+	+	–	+	–
ADCs external sampling frequency option			–	–	+	–	–
Active antenna supply circuit			–	–	+	–	+
Package type			QFN88 10×10mm	QFN88 10×10mm	QFN108 12×12mm	QFN32 5×5mm	QFN32 5×5mm
				WLCSP 5.12×5.2mm		WLCSP 2.5×2.5mm	WLCSP 2.7×2.7mm