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

Features			NT1065	NT1068	NT1066
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
Number of RF inputs of simultaneous operation			4	4	4
Number of IF data outputs			4	4	7
Maximum baseband bandwidth (double side down conversion)			62MHz	62MHz	60MHz
Channel output type	Real		+	+	+
	IQ		–	–	+
Channel output data interface type	Analog differential		+	+	+
	ADC		2-bit	2-bit	2-bit
Number of PLLs			2	2	4
Power consumption per channel over L band operation @ ~30MHz BB BW			67mW	68mW	85mW
SPI			+	+	+
Space-time processing (antenna array) application			+	+	–
ADCs external sampling frequency option			–	–	+
Active antenna supply circuit			–	–	+
Package type			QFN88 10×10mm	QFN88 10×10mm WLCSP 6.0mm×6.5mm	QFN108 12×12mm