

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 IRNSS (S band) and GAGAN (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	QFN108 12×12mm
			WLCSP 6.0mm×6.5mm	