Lothar of The Hill People's SDR and LNA Roundup.

Dec. 2025 R11	Color	Case	Heatpad	Topology	LNA	Filter	Source	Notes
SDRs						(T) = Taisaw		
ADSB Ex / Airframes 1090	Blue	Metal	No	LNA>FILTER	Skyworks 7150	(T)AS970	Lothar of the Hill People	
ADSB Ex / Airframes	Orange	Metal	No	LNA	Skyworks 7150	No	Lothar of the Hill People	
Airplanes Live	Blue	Metal	No	LNA>FILTER	Skyworks 7150	(T)EK1.09	James / Lothar	
Airplanes Live	Orange	Metal	No	LNA	Skyworks 7150	No	James / Lothar	
Generic China	Blue	Metal	No	LNA>Filter	Skyworks 7150	(T) EM1.09	Sitting Duc NZ	As low as $20 ea. on AliBaba. Lothar Recommended
Flight Aware Pro Stick	Orange	Plastic	No	LNA	Skyworks 7150	No	Web Pix	
Flight Aware Pro Stick Plus	Blue	Plastic	No	LNA>Filter	Skyworks 7150	(T) AY or AN970	Web Pix	
AirNav RadarBox Flightstick 1090	Green	Plastic	No	Filter>LNA	T504 (No data avail)	(T) EY 1.09	Web Pix	
AirNav RadarBox Flightstick 978	Red	Plastic	No	UNK	Mini Circuits PSA4-5043+	C61P (Unknown)	Kerfuffle	
AirNav Ship Explorer AIS	Blue	Plastic	No	UNK	UNK	UNK		
AirNav RadarBox VHF (AM Voice)	Yellow	Plastic	No	UNK	UNK	UNK		
RTL-SDR Blog V3	Black	Metal	Yes	NA	NA	NA	Web Pix	
RTL-SDR Blog V4	Black	Metal	Yes	NA	NA	NA	Web Pix	Obsolete / discontinued tuner chip
LNAs								
Unlabeled Amazon	Purple PCB	No	No	Filter>LNA	Qorvo TQP3M9009	(T) AD 970	The Bald Geek	23 dB Gain / 2.135 NF
Nooelec SAWBIRD+ADS-B (1090)	Black	Metal	No	LNA>Filter>LNA>Filter	Qorvo QPL9547	LW1Z (X2) (UNK)	Fatal & Dziban	NF of 0.8 dB is suspect
Nooelec SAWBIRD+ADS-B (978)				LNA>Filter>LNA>Filter	Qorvo QPL9547	7Y1T or M (X2) (UNK)	Fatal & Dziban	
Uputronics 1090 Preamp (2023)	Aluminum	Metal	No	LNA> Filter	Mini Circuits PSA4-5043+	(T) EB 1.09	The Bald Geek	18.4 gain / .75 dB NF
Nooelec SAWbird+ io	Black	Metal	No	LNA>Filter>LNA	Qorvo TQP3M9008	C36d (Unknown)	The Bald Geek	22 gain / 1.1 dB NF - Semi obsolete chip
Nooelec LaNA	Black	Metal	No	LNA	Qorvo TQP3M9035	NA	The Bald Geek	16.5 gain / .65 dB NF
Nooelec LaNA WB	Black	Metal	No	LNA	Mini Circuits LHA 83W	NA	Taclane	16.7 gain / 2.8 dB NF (No curve available)
RTL-SDR Blog Triple filtered 1090 LNA	Aluminum	Metal	No	LPF>LNA>SAW>LNA>SAW	Avago MGA-13116	UNK	Web Pix	Discontinued LNA chip
RTL-SDR Blog Wideband LNA	Aluminum	Metal	No	LNA	Qorvo SPF5189Z	NA	Web Page	Discontinued LNA chip . 9/2021 18.7 Gain / 0.6 dB NF
Generic Ebay 1090 (TZT China)	Green PCB	NA	NA	LNA>SAW>LNA>SAW	Qorvo TQP3M9008	(T) aZ 970 (X2)	Web Pix	Semi obsolete chip. As cheap as $12 !
Nooelec 1.542 LNA	Black PCB	NA	NA	LNA>SAW>LNA	Analog Devices MAX12000	C36X (UNK)	The Bald Geek	Really OLD GPS chip. 2006!
Nooelec ??? Sonde 403 new?	UNK PCB	NA	NA	LNA>SAW	Qorvo TQP3M9037	KW7L (UNK)	KV5QI	Prototype
Nooelec ??? Sonde 403 old?	UNK PCB	NA	NA	LNA>SAW>LNA	?	?	KV5QI	Prototype
Generic HT004 - TQP3M9037 LNA - - This is the one that has Impedence spelled wrong	Aluminum	Metal	No	LNA	Qorvo TQP3M9037	NA	Lothar of the Hill People	Also has an internal battery option! 0.45 nF at 1090. Gain - 28.3 @128 M, 23@978M, 22 gain at 1090, 20 @ 1.5G. 54 mA draw at 5V.
LNA4All	Yellow PCB	NA	No	LNA	Mini Circuits PSA4-5043+	NA	ExplodingLemur	Same performance as the Uputronics
HTOOL HT004A	Aluminum	Metal	No	LNA>LNA	Quorvo TQP3M9008 > SBB4089Z	NA	Web Pix / Big Zeus sample / Lothar Test	EOL Chips. Calculated nF 1.1. Calculated gain 37 @1090. Measured gain 38.2 at 120 MHz and 34.1 at 1090 MHz. Power consumption 62 mA. Battery Option
Lotus Systems LNA100M2G2S	Aluminum	Metal	No	LNA>LNA	TBD	NA	MFR Data	40 dB Gain, 0.45 max NF.100M-2G $220
Lotus Systems LNA100M2G2SBT	Aluminum	Metal	No	LNA>LNA	TBD	NA	MFR Data	40 dB Gain, 0.45 max NF.100M-2G - with Bias Tee power .$318
Generic TQP3M9037	Yellow	Metal	No	LNA	Qorvo TQP3M9037	NA	Web Pix / Big Zeus sample / Lothar Test	PCB end caps. Fishy DC grounding. Connections for a battery but no space for one. 48 mA draw. Gain at 1090 is 21.9 and 27.5 at 120 MHz as tested. Not Recommended