

Günter Köllner Embedded Development GmbH

Product and Applications Catalogue



Radarcape

66006 Radarcape
The Radarcape is a passive ADS-B receiver with built-in Linux computer which can be used to observe aircraft (radarspotting) inside the reception range.
It contains a Linux computer (BeagleBone board, ARM CPU) with a network interface.



66066 BUNDLE: Radarcape + „A3 ADS-B“ Antenna (1090 MHz) + 10 m Antenna Cable

66077 BUNDLE: Radarcape + „Active Diapason“ Antenna (1090 MHz)+ 20 m Antenna Cable

Mode-S Beast

41000 Mode-S Beast Kit
The Mode-S Beast is a top performance ADS-B, Mode-S and Mode-A/C receiver and decoder, with outstanding performance.
The Mode-S Beast enables you to receive the positions of aircraft up to 450 km (225 nm) distance. Additionally, you just need an antenna and a PC with a free software for the visualization.
The USB connector is used for the data transfer to the PC and for power supply.



41080 Mode-S Beast Case

41099 Mode-S Beast Assembly Service

ADS-B USB-Dongles

53199 ADS-B USB Dongle (R820T) without Indoor Antenna
RTL2832/R820T dongles have a very high sensitivity and great range.
This dongle can be used together with Planeplotter and RTL1090 for the reception of Mode-S/ModeAC and ADS-B.



53200 ADS-B USB Dongle (R820T) incl. Small Indoor Antenna

53505 SDR-Dongle (R820T) with TCXO +/- 0.5 ppm
The internal 28.8 MHz crystal was replaced by a 28.8 MHz temperature compensated oscillator (TCXO). By this means the drift/tolerance of the dongle's base frequency is reduced to max. 0.5 ppm (2 kHz @ 1 GHz, 200 Hz @ 100 MHz). Dongles that are used in narrow band SDR applications will benefit from this increased stability as the tuning frequency accuracy and stability will be increased dramatically.



67125 BUNDLE: ADS-B USB Dongle + „SCO-1090-MCX“ Antenna (1090 MHz)

68240 BUNDLE: „Active Diapason“ Antenna (1090 MHz)+ ADS-B USB Dongle + 20 m Antenna Cable

Antennas & Accessories

67020 „A3 ADS-B“ Antenna (1090 MHz)
Standard high gain outdoor antenna for all of our receivers

67120 „SCO-1090-MCX“ Antenna (1090 MHz), 3 m Cable, MCX Plug for ADS-B USB Dongle
Antenna especially for the direct connection to our Diamond Crown ADS-B Dongle

67235 Small Indoor Antenna (1090 MHz) for ADS-B Dongle

67560 Small Indoor Antenna (1090 MHz) with SMA Plug for Radarcape and Mode-S Beast

67901 Self sealing tape

68140 BUNDLE: „Active Diapason“ Antenna (1090 MHz)+ 20 m Antenna Cable

68200 „Active Diapason“ Antenna (1090 MHz)
Active antenna for 1090 MHz with integrated low noise amplifier

69140 BUNDLE: „Active Diapason AA 868“ Antenna for 868 MHz + 20 m Antenna Cable

69200 „Active Diapason AA 868“ Antenna for 868 MHz
Active antenna for 868 MHz (Open Glider Net) with integrated low noise amplifier (LNA)

71010 1090 MHz 3 Pol Filter

Cables & Adapters

67230 SMA(m)/ MCX(f) Adapter

67231 IEC(f)/ MCX(m) Adapter

67303 SMA(f)/ MCX(m) pigtail cable extension 15 cm

70120 Antenna cable for „Active Diapason“ Antenna, length 20 m

70405 Antenna Cable for „A3 ADS-B“ Antenna, length 5 m

70410 Antenna Cable for „A3 ADS-B“ Antenna, length 10 m

70505 GPS Extension Cable, length 5 m

70510 GPS Extension Cable, length 10 m

miniADSB & SDR Kits

46000 „SDR-RX“ Kit
Kit from piece parts

46085 BUNDLE: „SDR-RX“ Kit + SDR-Dongle (TCXO 0.5 ppm)

54000 picADSB9 Kit
Decoder kit for ADS-B packets

55002 SAW Filter TA1090EC

55003 SAW Filter TA0232A

99009 Genuine „miniADSB“ kit
A complete kit of the genuine miniADSB 1090 MHz RF frontend, incl. PCB

Distribution

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