








Jetvision ADS-B Devices	Mode-S Beast	Mode-S Beast GPS	Mode-S Beast Module	Radarcapc	AirISquitter	Footnotes
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<b>Type</b>						
Type of device	Modem	Modem	Modem	Receiver	Receiver	
Graphical user interface	○	○	○	●	●	
Operating system	○	○	○	Linux Debian	Linux Debian	
<b>Decoded Formats</b>						
Mode-S & ADS-B	●	●	●	●	●	
Mode-A/C	●	●	●	●	●	
FLARM	○	○	○	○	● 1)	1) with FLARM option installed
<b>Sensitivity and Range</b>						
Range for Mode-A/C, Mode-S and ADS-B 2)	400km	400km	450km	450km	450km	2) typical range provided a good antenna at a good location is connected, line of sight
Sensitivity 3)	-90dBm	-90dBm	-93dBm	-93dBm	-93dBm	3) for 50% decoding of all frames
FLARM 2)	○	○	○	○	125km	
<b>Connectivity</b>						
USB CDC serial port	●	●	○	●	●	
USB LAN (RNDIS, USBEEM)	○	○	○	●	●	
LAN	● 4)	○	○	●	●	4) with Lantronix Xport option
Pin Header	●	●	○	○	○	
Solder joints	○	○	●	○	○	
WiFi network client	○	○	○	● 5)	●	5) External USB WiFi Adapter, requires Debian 10
WiFi access point	○	○	○	○	●	
Cellular modem	○	○	○	● 6)	● 7)	6) with external USB cellular modem 7) internal WiFi replaced by cellular modem
<b>GNSS / Timestamps</b>						
12MHz legacy timestamps	●	●	●	●	●	
GPS based timestamps	●	●	●	●	●	
Internal GNSS module	○	Trimble SMT360	uBlox M8W	Trimble SMT360	uBlox M8W	
External GPS connection	○	○	●	● 8)	○	8) optional external 10MHz clock and 1PPS input

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<b>Multilateration Network</b>						
Jetvision MLAT network connection	○	○	○	manual registration	built in at delivery 9)	9) always enabled for all non commercial versions
<b>Configuration Interface</b>						
DIP switches	●	●	●	○	○	
Commands via serial/network port	●	●	●	●	●	
Web configuration	○	○	○	●	●	
<b>GUI Data Interfaces</b>						
Integrated web server / Web GUI	○	○	○	●	●	
Aircraft List	○	○	○	●	●	
2D Map	○	○	○	●	●	
Receiver performance and range	○	○	○	●	●	
GNSS status	○	○	○	●	●	
<b>High Level Data Interfaces</b>						
Aircraft list as JSON	○	○	○	●	●	
Aircraft flight path as JSON	○	○	○	●	●	
3D data output in KML	○	○	○	●	●	
Port 30003 TCP/UDP	○	○	○	●	● 10)	10) commercial version only
ASTERIX CAT021, 023, 247	○	○	○	● 10)	● 10)	
<b>Raw Data Interfaces</b>						
Raw data AVR format TCP/UCP	●	●	●	●	● 10)	
Raw data Beast format TCP/UDP	●	●	●	●	● 10)	
GNSS module data	○	TSIP, RS232, 1PPS	UBX, RS232, 1PPS	TSIP, TCP	UBX, TCP	
<b>Built-In Sharing Network Feeder</b>						
Jetvision Network	○	○	○	●	●	
Flightradar 24	○	○	○	●	●	
FlightAware	○	○	○	●	●	
Opensky Network	○	○	○	●	●	
ADSB Exchange	○	○	○	●	●	
<b>External Data In</b>						
FlightAware MLAT results	○	○	○	●	●	
OGN network APRS server	○	○	○	●	●	
Local OGN FLARM receiver	○	○	○	●	●	

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<b>Available Options</b>						
Antenna Diversity (2nd receiver)	● 11)	● 11)	○	●	○	11) external miniADSB required
Video Out	○	○	○	●	○	
High Dynamic Range	○	○	○	●	○	
External 10MHz clock & PPS input	○	○	○	●	○	
<b>Mechanical</b>						
Size of PCB [mm]	100 x 53	100 x 53	60 x 50	○	○	
Size of case [mm]	110 x 85 x 35	107 x 62 x 30	○	80 x 92 x 45	150 x 120 x 35	
Weight of PCB [g]	25	32	16	○	○	
Weight with case [g]	160	230	○	233	400	
<b>Power Supply</b>						
Power	5V / 175mA	5V / 275mA	5V / 275mA	5V / 0.7A	5V / 0.7A	
Connector	USB Type B / solder joints	USB Type B / pin header	PCB edge solder joints	DC jack 5.5mm/2.1mm	DC jack 5.5mm/2.1mm	
<b>Antenna connectors</b>						
ADS-B Antenna	SMA (female)	SMA (female)	PCB edge SMA / solder joint	SMA (female)	SMA (female)	<b>Connector Types</b>  <b>SMA male   SMA female   RP SMA male   RP SMA female</b>
GNSS Antenna	○	no extra GNSS antenna joint ADS-B & GNSS optional U.FL	joint ADS-B & GNSS optional U.FL	SMB (male)	no extra GNSS antenna joint ADS-B & GNSS	
WiFi Antenna	○	○	○	○	SMA (female) or RP-SMA (female)	
<b>Order information</b>						
Article Number	41000	41201	41100	66006 12)	66200 12)	12) Base product of product line
Shop link	<a href="https://shop.jetvision.de/Mode-S-Beast/en">https://shop.jetvision.de/Mode-S-Beast/en</a>	on customer demand	on customer demand	<a href="https://shop.jetvision.de/radarcape_en">https://shop.jetvision.de/radarcape_en</a>	<a href="https://shop.jetvision.de/AirSquitter-ADS-B-Receiver">https://shop.jetvision.de/AirSquitter-ADS-B-Receiver</a>	
<b>History of changes:</b>						
2020-01-31-001 koe Creation						