





GPS and GNSS Antenna Modules

	SMD			
Antenna illustration (Not To Scale)				
Part number	M20071	M20072	Agosti M20071-EVK	Admotus M20071-EVK
Architecture	Ant + RF + BB	Ant + RF + BB	Ant + RF + BB	Ant + RF + BB
GPS Chipset	Mediatek AG3335MN	Mediatek AG3335MN	Mediatek AG3335MN	Mediatek AG3335MN
Frequency	1559 - 1609 MHz	1559–1609 MHz	1559–1609 MHz	1559–1609 MHz
Dimensions (L x W x H in mm)	9.0 x 9.0 x 1.8	13.8 x 9.5 x 1.8	50 x 25mm	50 x 30mm
Omni-directional antenna	N/A	√	√	√
External antenna support	√	√		
Av. antenna gain, eq. to ceramic antenna	N/A	17 x 17 x 4 mm		
Power consumption: acquisition, tracking, sleep mode	31mA, 24mA, <200uA	38mA, 28mA, 350uA		
Host Interface	UART	UART	UART	UART
Baud rate (bps)	115200	115200	115200	115200
Data output protocol	NMEA 0183	NMEA 0183	NMEA 0183	NMEA 0183
Sensitivity: acquisition / tracking	-148dBm / -165 dBm	-148dBm / -165 dBm	-148dBm / -165 dBm	-148dBm / -165 dBm
Typical applications	Tracking devices, PNDs, OBD2, mHealth	Tracking devices, PNDs, OBD2, mHealth		

Implementation support

Antenova offers a full range of development support and RF testing to help reduce customization, design costs and accelerate your time to market. Antenova recommends customers to use our know-how when it comes to implementing the antenna. We offer advanced measuring equipment, custom tuning and technical support to obtain a secure and reliable implementation. Make Antenova your partner of choice for new product development.





Contact sales@antenova.com, and why not join our antenna design community at ask.antenova.com.



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GPS and GNSS Antenna Modules

SMD

Part number	M10578-A2	M10578-A3	M20048-1	M20050-1
Antenna illustration (Not To Scale)				
Architecture	RF + BB	RF + BB	Ant + RF + BB	Ant + RF + BB
GPS Chipset	Mediatek MT3337-E	Mediatek MT3333	Mediatek MT3337-E	Mediatek MT3333
Frequency	1575 MHz	1559–1609 MHz	1575 MHz	1559 – 1609 MHz
Dimensions (L x W x H in mm)	9.0 x 9.0 x 1.8	9.0 x 9.0 x 1.8	13.8 x 9.5 x 1.8	13.8 x 9.5 x 1.8
Antenna Bandwidth	30 MHz	50 MHz	30 MHz	50 MHz
Antenna Bandwidth	30 MHz	50 MHz	30 MHz	50 MHz
Omni-directional antenna	N/A	N/A	√	√
External antenna support	√	√	√	√
Av. antenna gain, eq. to ceramic antenna	N/A	N/A	17 x 17 x 4 mm	17 x 17 x 4 mm
Power consumption: acquisition, tracking, sleep mode	31mA, 24mA, <200uA	38mA, 28mA, 350uA	31mA, 24mA, <200uA	38mA, 28mA, 350uA
Host Interface	UART CMOS 3.3v	UART CMOS 3.3v	UART CMOS 3.3v	UART CMOS 3.3v
Baud rate (bps)	4800 / 9600 / 38400 / 115200	9600	4800 / 9600 / 38400 / 115200	9600++
Data output protocol	NMEA 0183	NMEA 0183	NMEA 0183	NMEA 0183
Sensitivity: acquisition / tracking	-148dBm / -165 dBm	-148dBm / -165 dBm	-148dBm / -165 dBm	-148dBm / -165 dBm
Typical applications	Tracking devices, PNDs, OBD2, mHealth		Tracking devices, PNDs, OBD2, mHealth	

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