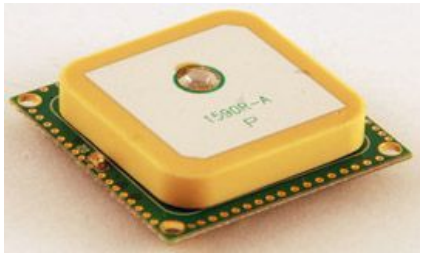
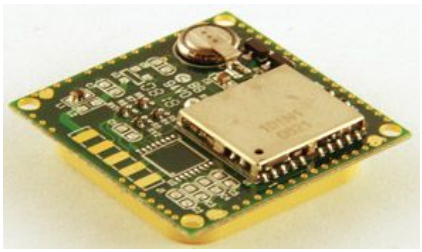
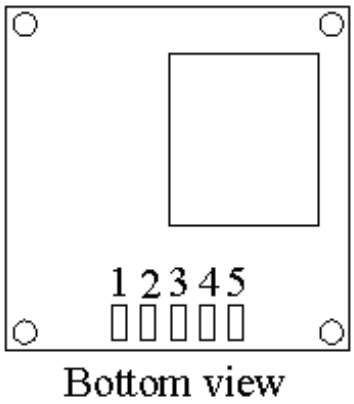
AarLogic GPS 3A





Pin assignment



Bottom view

TTL Version (standard)

Pin #	Name	Type	Description
1	VCC	P	Power input
2	RX	I	Data input (TTL level)
3	TX	O	Data output (TTL level)
4	GND	P	Ground
5	GND	P	Ground

USB Version

Pin #	Name	Type	Description
1	VBUS	P	USB power input
2	D-		D- line
3	D+		D+ line
4	GND	P	Ground
5	Shield	P	Ground

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DC & Temperature characteristics

Parameter	Symbol	Product	Min.	Typ.	Max.	Units
Input voltage	VCC	USB version TTL version	4.75 3	5 3.3	5.25 4.2	V
Input current	Icc	USB version TTL version		70(1) 62(2)		mA
High Level Input Voltage	V_{IH}	TTL version	0.7*VOUT(3)		3.6	V
Low Level Input Voltage	V_{IL}	TTL version	-0.3		0.3*VOUT(3)	V
High Level Input Current	I_{IH}	TTL version	-10		60	uA
Low Level Input Current	I_{IL}	TTL version	-10		60	uA
High Level Output Voltage	V_{OH}	TTL version	0.75*VOUT(3)			V
Low Level Output Voltage	V_{OL}	TTL version			0.25*VOUT(3)	V
High Level Output Current	I_{OH}	TTL version		2		mA
Low Level Output Current	I_{OL}	TTL version		2		mA

1. Measured when position fix is available and input voltage is 5V.
2. Measured when position fix is available and input voltage is 3.3V.
3. 2.79V≦VOUT≦2.91V.

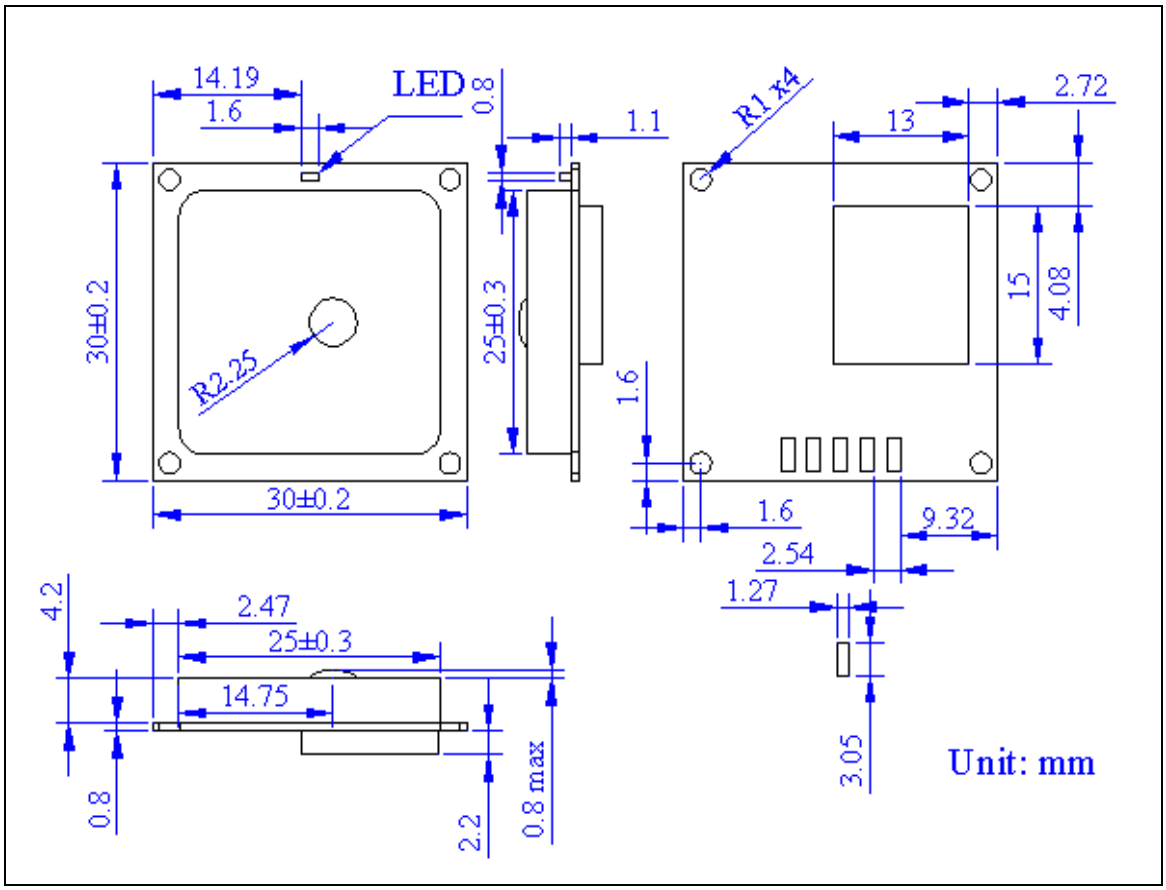
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Temperature	Topr	-30	-	85	℃
Storage Temperature	Tstg	-40	25	85	℃

Detailed documentation & command reference

Please look into the datasheet of the AarLogic 3M. The AarLogic is based on the AarLogic 3M module. The only difference between 3A and 3M are the reduced number of IOs and the additional passive GPS antenna patch.
Please take care of a minimum distance of 20cm to cellular antennas if the cellular communication and GPS are used simultaneously.
The AarLogic GPS 3A comes with a integrated SAW behind its I-stage LNA. Thus under certain circumstances a saturation of the LNA is possible.

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Mechanical specification



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