



A1088-A

Positioning Products



Designed for reliability at excellent GPS performance

Purposely developed for automotive and industrial applications, where demanding reliability and quality requirements are at the forefront, the A1088-A GPS receiver can be used in any challenging application. Integrating AEC-Q compliant components and produced in our ISO9001 and TS16949 certified factory, your application can really rely on this component! The A1088-A GPS receiver is a qualified SiRFStar III based product with optimized GPS performance and EMI pre-compliance tests. Get your Evaluation Kit and check out the excellent performance of Vincotech's A I 088-A!

High sensitivity ■ -157 dBm tracking

Fastest TTFF (Time To First Fix) ■ < 35 s under cold start conditions (typical)

Low power consumption • 99 mW average in tracking mode

Small footprint $= 28 \times 19 \text{ mm}^2$ (pin compatible to A1080)

Quality receiver components

AEC-Q compliant

Positioning Receiver Portfolio

With the mission to support our customers in implementing GPS functionality into their systems, Vincotech is offering a large product portfolio to cover almost all integration possibilities in an easy way. A dedicated R&D team located in the Munich region, Germany, develops sensitive positioning solutions based on state of the art technologies. All GPS products are manufactured in our ISO9001 and TS16949 certified factory in the EU. Our modules comply to the RoHS standard and are 100% electrically and functionally tested prior to packaging. This way we constantly guarantee high quality products.

PRODUCTS SHOWN IN ACTUAL SIZE

GPS Receivers



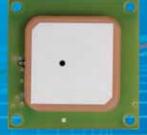
A1080-A

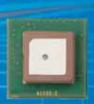












Smart Antenna Modules

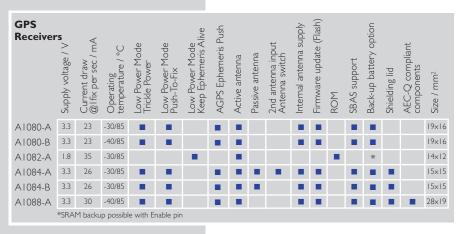


A1088-A

A1035-D

A1035-E

A1035-H



Smart Antenna Modules	Antenna type	Circular polarisation	Linear polarisation	Plug-in module	SMD solderable	External antenna pin	Shielding lid	Size / mm²	Based on GPS receiver
A1035-D	patch							35×35	A1080-A
A1035-E	patch							21×21	A1082-A
A1035-H	patch							30×17	A1084-A
A1085-A**	chip							31×17	A1080-A
A1086-A**	meander						t.b.d.	25×15	A1084-A
A1086-B**	meander						t.b.d.	25×15	A1084-A
**product planned									



Technical Details A 1088-A

PERFORMANCE

Channels	20 parallel tracking		
Correlators	200,000 plus		
Frequency	LI – 1,575 MHz		
Sensitivity			
Tracking	-157 dBm		
Acquisition (cold start)	-142 dBm		
Position accuracy	< 2.5 m CEP autonomous		
(horizontal)	< 2.0 m CEP SBAS		
Time To First Fix			
Hot start ¹⁾	< s		
Warm start ²⁾	< 32 s		
Cold start ³⁾	< 35 s		

COMMUNICATION

Standard GPS software	
NMEA message switchable	GGA, GSA, GSV, VTG,
	RMC, GLL
Baud rate	4,800 (default) to 115,200
Serial ports	3.3 V CMOS compatible
Tx0	NMEA output
R×0	NMEA input

ENVIRONMENT

Temperature	
Operating	-40° to +85°C
Storage	-40° to +105°C
Humidity	Non-condensing

-GPS A 1088-A

POWER

3.0 to 3.6 VDC		
36 mA (typical)		
30 mA (typical)		
20 μA (typical)		
up to 5.0 V		
50 mA		

MECHANICAL

Dimensions	$28.0 \times 19.0 \times 3.0 \text{ mm}^3$
	1.1"× 0.75"× 0.12"
Weight	3.1 g / 0.11 oz.

YOUR PARTNER

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The receiver has estimates of time/date/position and valid almanac and ephemeris data
 The receiver has estimates of time/date/position and almanac
 The receiver has no estimate of time/date/position, and no recent almanac
 An external current limiter is suggested to avoid damage in fault conditions

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