

GPS Engine Board Selection

Model	EB-800	EB-800A	EB-870	EB-870A	EB-807	EB-807A	EB-6200	EB-845	EB-845A
Appearance									
Band	GPS	GPS/Glonass	GPS	GPS/Glonass	GPS	GPS/Glonass	GPS	GPS	GPS/Glonass
Antenna Integration	No	No	No	No	Yes, 12x12x3.5mm	Yes, 12x12x3.5mm	Yes, 12x12x3.5mm	Yes, 25x25x4mm	Yes, 25x25x4mm
Dimension (mm)	13x15x2.2(H)	13x15x2.2(H)	10.4x10.5x2.0(H)	10.4x10.5x2.0(H)	16x22x5.8(H)	16x22x5.8(H)	16x22x5.8(H)	28x26.3x8.2(H)	28x26.3x8.2(H)
Connection	SMT, 22 pin	SMT, 22 pin	SMT, 28 pin	SMT, 28 pin	FPC, 6 pin	FPC, 6 pin	FPC, 6 pin	Wafer 6 pin or TH 6 pin	Wafer 6 pin or TH 6 pin
Solution	MT3339	MT3333	MT3339	MT3333	MT3339	MT3333	SIRF S4	MT3339	MT3333
Channels	66	99	66	99	66	99	48	66	99
Sensitivity (Tracking)	-165dB	-165dB	-165dB	-165dB	-165dB	-165dB	-163dB	-165dB	-165dB
LNA / SAW filter	✓	✓	SAW filter	SAW filter	✓	✓	✓	✓	✓
Accuracy*	<3m CEP (50%) w/o SA 2.5m DGPS	<3m CEP (50%) w/o SA 2.5m DGPS	<3m CEP (50%) w/o SA 2.5m DGPS	<3m CEP (50%) w/o SA 2.5m DGPS	<3m CEP (50%) w/o SA 2.5m DGPS	<3m CEP (50%) w/o SA 2.5m DGPS	<3m CEP (50%) w/o SA 2.5m DGPS	<3m CEP (50%) w/o SA 2.5m DGPS	<3m CEP (50%) w/o SA 2.5m DGPS
AGPS	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fast Position Fix	✓	✓	✓	✓	✓	✓	✓	✓	✓
Update Rate	Up to 10Hz	Up to 10Hz	Up to 10Hz	Up to 10Hz	Up to 10Hz	Up to 10Hz	Up to 5Hz	Up to 10Hz	Up to 10Hz
RTCM ready	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
DGPS**	✓	✓	✓	✓	✓	✓	✓	✓	✓
AlwaysLocate™	✓	✓	✓	✓	✓	✓	N/A	✓	✓
EPO™ / HotStill™	✓	✓	✓	✓	✓	✓	N/A	✓	✓
EASY™	✓	✓	✓	✓	✓	✓	CGEE (optional)	✓	✓
Supply Voltage	2.8~4.2Vdc	2.8~4.2Vdc	2.8~4.2Vdc	2.8~4.2Vdc	2.8~4.3Vdc	2.8~4.3Vdc	2.5~5.5Vdc	3.0~4.2Vdc	3.0~4.2Vdc
Power Consumption	<18mA @ 3.3V / Tracking	<22mA @ 3.3V / Tracking	<15mA @ 3.3V / Tracking	<20mA @ 3.3V / Tracking	<20mA @ 3.3V / Tracking	<22mA @ 3.3V / Tracking	<25mA @ 3.0V / Tracking	<20mA @ 3.3V / Tracking	<25mA @ 3.3V / Tracking
Operating Temp.	-40 ~ +85°C	-40 ~ +85°C	-40 ~ +85°C	-40 ~ +85°C	-40 ~ +85°C	-40 ~ +85°C	-40 ~ +85°C	-40 ~ +85°C	-40 ~ +85°C
Storage Temp.	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C
Environment	<95% R.H.	<95% R.H.	<95% R.H.	<95% R.H.	<95% R.H.	<95% R.H.	<95% R.H.	<95% R.H.	<95% R.H.
RoHS/WEEE	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application	Tracker, Logger, Car DVR	Tracker, Logger, Car DVR	Handheld device	Handheld device	Wearable GPS	Wearable GPS	Wearable GPS	Car tracker	Car tracker

Note : * Refer to chip specifications
** Supports WAAS/EGNOS/MSAS/GAGAN

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