






GPS Receiver:

	TK-158 Locator	GM-158 Locator	GM-48-UB Receiver	GM-48-S Receiver	VP-200-T Time Transfer
					
Dimension in mm	46.2 x 38 x 16 (LxWxH)	46.2 x 38 x 16 (LxWxH)	Diameter Dim. 56. x 21.5(H)	Diameter Dim. 56. x 21.5(H)	Diameter Dim 114 x 74 (H)
Weight	-175 gr. with USB cable	214 gr. with USB cable	- 220gram with cable	- 220gram with cable	- 360 g without cable
GPS Chipset	Atheros	MTK-3301	Antaris 4	SiRF III	Furuno
Mounting	Magnetic mount	Magnetic mount	Metallic base to enhance the grounding	Metallic base to enhance the grounding	Pole mount to 1"4 threaded pipe
Construction	Ultrasonic welded, fully waterproof	Ultrasonic welded, fully waterproof	Robust structure	Robust structure	Hermetically sealed, fully waterproof
Temperature	Operating: 0°C ~ + 70°C Storage: -20°C ~ + 85°C	Operating: 0°C ~ + 70°C Storage: -20°C ~ + 85°C	Operating: -30°C ~ + 75°C Storage: -40°C ~ + 85°C	Operating: -30°C ~ + 75°C Storage: -40°C ~ + 85°C	Operating: -30°C ~ + 75°C Storage: -40°C ~ + 85°C
Signal level	EIA/TIA-232 or USB 1.1	EIA/TIA-232 or USB 1.1	EIA/TIA-232 or USB 1.1	EIA/TIA-232 or USB 1.1	RS-232 or RS- 422 (opt.)
Sensitivity	-159 dBm	-158 dBm	-150 dBm	-159 dBm	-159 dBm
Receiver architecture	20 parallel Channels	32 parallel Channels	SBAS 1 Channels	SBAS 1 Channels	SBAS 1 Channels
Start up time (Typical)	1s. (hot start) 35 s. (warm start) 41 s. (cold start)	3 s. (hot start) 35 s. (warm start) 41 s. (cold start)	0.1s. (hot start) 35 s.(warm start) 42 s. (cold start)	0.1s. (hot start) 35 s. (warm start) 42 s. (cold start)	18 sec. (warm start)
Velocity	100 m/s	0.1 knot RMS steady state	-	-	0.1 knot RMS steady state
Update rate	1 Hz	1 ~ 5 Hz	1 Hz	1 Hz	1 s. continues
Power Supply	RS-232 @ 3.6~5V USB @ 5 V 12 V Car Adpt.	RS-232 @ 5V USB @ 5 V 12 V Car Adpt.	RS-232 @ 5V or 8-35V USB @ 5 V 12 V Car Adpt.	RS-232 @ 5V or 8-35V USB @ 5 V 12 V Car Adpt.	DC 8 ~40V, with reverse protection
Power cable	5 m length	5 m length	5 m length	5 m length	15m (RS-232)