C18

Ethernet · COM-1 · COM-2/USB · Power · GNSS

Industrial CORS System

HVI
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C18

Industrial CORS System

The C18 industrial CORS system uses a Trimble BD990 OEM board. It can be used in a variety of applications and is compatible with various platforms that can improve Single Base Station applications and any kind of VRS setup. An advanced type of self-locking connection is employed; the outer casing is made of aluminum alloy with a system that cools the machine. This self-cooling mechanism is coupled with anti-shock technology and more.

Specification

Item	Parameter
GNSS module	Trimble BD990
Web Server	GNSS board embedded
Power indicator	One LED light
Ntrip Caster	GNSS board embedded
Ethernet	RJ45 water-proof Ethernet port
Serial Port	RS232 standard
GNSS Antenna interface	TNC type at the same side with the other connector
Shell material	Aluminium alloy
Dimension	167mm x 128mm x 59mm
USB Port	Optional, one fischer USB port for download static data
1PPS&Event(Optional)	Optional, two SMA connectors for the functions
Moving Base and Heading	Optional
Battery	None
Channels	336
Signal Tracking	— GPS: L1 C/A, L2E, L2C, L5 — BeiDou: B1, B2, B313 — GLONASS: L1 C/A, L2 C/A, L3 CDMA14 — Galileo2: E1, E5A, E5B, E5AltBOC, E614 — IRNSS: L5 — QZSS: L1 C/A, L1 SAIF, L2C, L5, LEX — SBAS: L1 C/A, L5 — MSS L-Band: OmniSTAR, Trimble RTX
Maximum rate	<50Hz
Autonomous	1m horizontal, 1.5m vertical
SBAS	0.5m horizontal, 0.85m vertical
DGPS	0.25m horizontal, 0.5m vertical
RTK	0.008m horizontal, 0.015m vertical
RTK initialization reliability	＞ 99.9%
DC Input	12V, 1A
Operating temperature	－ 30 ℃ ～ ＋ 75 ℃
Storage temperature	－ 40 ℃ ～ ＋ 85 ℃
Operating humidity	5%～ 95% (Noncondensing)
Standard Accessory	Power cable*1, Adaptor*1, Fischer to Serial Cable*1, RJ45 cable*1, TNC to TNC cable *5m
Optional Accessory	Choke Ring Antenna, Fischer to USB cable, Engineering plastics case