

# CT-9930



## OEM GPS Module

ICD CT9930 OEM GPS receiver module enable the implementation of all positioning feature into appliance faster and with less effort than before. Offering Industry-leading benefits in performance, size, power consumption, programmability and total cost of the product. The CT9930 receivers are ideally suited for both industrial tracking and navigation systems and battery-operated consumer products for handheld computers, asset tracking device, vehicle navigation devices and mobile phones. Ultra-low power management makes CT9930 one of the lowest power consuming, complete 12 channel OEM GPS receivers on the market. The CT9930 receivers have a navigation sensitivity as low as  $-157\text{dBm}$ .

Space and costs are reduced due to the cutting-edge technology architecture in the CT9930 receivers. The surface mount SMD design eliminates need for expensive and labor intensive system and RF components are required. Dedicated hardware search engine ensure fast TTFF and with Battery backup.

### FEATURES

- Dimensions 50mm \* 30mm \* 13mm (L\*W\*H)
- Ultra-low power consumption  $< 160\text{mW}$  @5.0V
- Very High Sensitivity  $-157\text{dBm}$  (Tracking)
- Ciri binary and NMEA0183 protocols
- Versatile interface ports
- RTC Back-up Battery build in
- 8Mbit Flash Memory

### APPLICATIONS

- CNS (Car Navigation System)-Dynamic
- Radar Detectors (automotives)
- Data Locker (Logistics Systems)

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## Performance Specifications

General	L1 frequency, C/A code (SPS) 12 independent tracking channels Separate search & acquisition engine
Update Rate	1 fix/s or user configurable
Accuracy :	
Position	3 m (CEP), 6m 2DRMS
Velocity	0.2 m/s (50%)
Time	20ns RMS (static mode)
TTFF	Cold Start: 50 s typical
	Warm Start: 35 s
	Hot Start: 10 s
	Quick Start 3 s
Reacquisition	100 ms typical (signal reacquisition)
Dynamics	Acceleration: 4G

## Physical Characteristics

Dimensions	50 * 30 * 13 (L*W*H)(mm)
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## Environment Specifications

Operation Temperature	-10°C to +80°C
Storage Temperature	-40°C to +95°C
Sensitivity	-157dBm (tracking)
Operating Voltage	3.0V...7.5V (linearly regulated)

## Technical Specifications

Antenna Supply	Same as board supply or separate external supply (e.g. 5.0V)
Power consumption	160mW@5.0 V (in continuous mode) (Active Antenna Power not included)
Antenna	External, passive or active
Protocol	NMEA-0183 V3.0 Cirocomm Binary
Processor	-Proprietary, 32 MIPS integrated 16-bit DSP-core -RISC-like programming under Pre-emptive -Real Time Operating System Control (VSDSP RTOS)
Flash Memory	8Mbits Flash
Antenna Power	5V at 30mA max



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