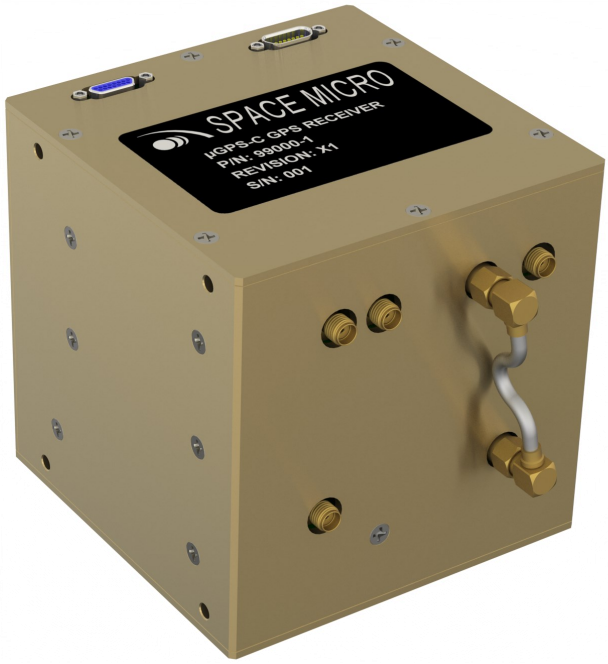
µGPS-C™ GPS Receiver

SPACE MICRO



Key Features

- Based on GPS IIF satellite verification software
- L1 C/A code
- L2C, L5, P(Y) and M-codes (upon request)
- Minimize SWAP
- LEO or GEO with directional antenna
- Radiation Hardened
- Parts Program: Commercial Space, Level I, II, III
- Microprocessor resources: Dual Cortex A9 cores
- FPGA reconfigurable resources

GPS Receiver Features

Position Accuracy	< 10 meters
Measurement Data Rate	1 second
Position Data Rate	Every 10 seconds
PPS Timing Accuracy	< 50 nsec
Velocity Accuracy	< 0.05 m//s
Voltage	+28 V
Power Consumption	8 W (estimated) without LNA
Option for LNA (µGPS-C-LNA)	9 W (estimated)

Physical Characteristics

Dimensions	10 cm x 10 cm x 8 cm
Mass	1.5 kg
Environmental Conditions	
Radiation Tolerance (TID)	30 krads (Si); higher rates optional
Single Event Effects	No SEL or SEFI
Operating Temperature	-20°C to + 65°C

Preliminary Datasheet

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