

# MIC-3957

## 3U CompactPCI® GPS Communication Board



### Features

- GPS based on 50 channel u-blox lea-6s module
- 32bit 33/66MHz PCI bus backplane
- UART interface for GPS module
- Accuracy 2.5 m CEP
- PICMG 2.0 Rev. 3.0 compatible



### Introduction

The MIC-3957 is a 3U CompactPCI GPS Communication Card. It is designed with u-blox lea-6s GPS module via UART interface. MIC-3957 is capable of massive parallel time/frequency space searches, enabling it to find satellites instantly. Innovative design and technology suppresses interference sources and mitigates multipath effects, providing excellent navigation performance even in the most challenging environments in automotive and industrial applications.

### Specifications

GPS Interface	UART		
Main chip	u-blox lea-6s		
Antenna	GPS antenna 1575MHz		
Receiver Type	50 Channels GPS L1 frequency, C/A code GALILEO Open Service capable SBAS:WAAS,EGNOS, MSAS, GAGAN		
Time-To-First-Fix	Cold Start: 29 s Warm Start: 29 s Hot Start: < 1 s		
Sensitivity	Tracking & Navigation: -160 dBm Reacquisition: -160 dBm Cold Start: -147 dBm		
Horizontal Position Accuracy	Autonomous: < 2.5 m SBAS: < 2.0 m		
Max Navigation Update Rate	< 5 Hz		
Velocity Accuracy	0.1 m/s		
Heading Accuracy	0.5 degrees		
Operational Limits	Dynamics	< 4 g	
	Altitude	50,000m	
	Velocity	515 m/s	
OS support	Windows XP, Windows 7, Linux CentOS6.6		
Power consumption	2.5W		
Environment	Temperature	-25 ~ 55° C (-13 ~ 131° F)	-40 ~ 80° C (-40 ~ 176° F)
	Humidity	10 ~ 95% @ 40° C, non-condensing	10 ~ 95% @ 60° C, non-condensing
	Shock	10 G	20 G
	Vibration (5 ~ 500 Hz)	1.06 Grms	2 Grms
Physical Characteristics	PCB Dimensions (W x H)	160 x 100 mm (6.3" x 3.9"),	
	Weight	0.4 kg	
Reliability	MTBF	-	

### Related Products

Part Number	Description
MIC-3328	3U CompactPCI 3rd generation Intel® Core™ Processor Blade
MIC-3023D1-A1E	3U CPCI fanless enclosure dual system with 2 backplane, 2 AC-In panel
MIC-3023S1-D1E	3U CPCI fanless enclosure single system with 1 back plane, 2 CPCI power connector for DC-Input power

### Ordering Information

Part Number	PCI	PICMG 2.0	Description
MIC-3957A1-S1E	Yes	Yes	3U CPCI GPS communication board

### Accessories

Part Number	Description
1750006432	GPS antenna 5000mm AG1575-0250SM-UL