



# ROBUST GNSS TRACKING ALGORITHM FOR MULTIPATH CORRECTION

*Improved accuracy in constrained environments of GNSS receivers using Binary Offset Carrier (BOC) signals*

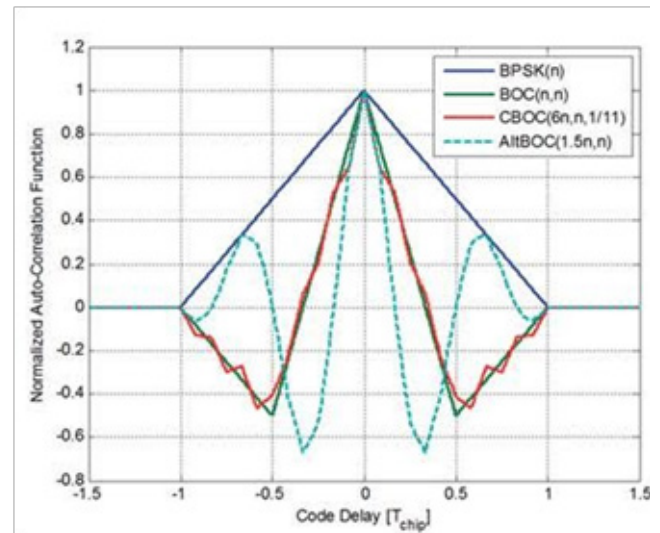
## Technological benefits

### Innovative technology

- High robustness to thermal noise and multipath
- Correction seamlessly and done in a single operation
- Requires only a firmware update on most GNSS receivers

## Invention overview

This algorithm detects and efficiently corrects the phenomenon of ambiguity of the correlation function that degrades the pursuit of the BOC signals from GNSS receivers when the signal processing operations use a secondary peak, eg constrained environment as city where buildings interfere with signal reception.



## Commercial benefits

- Elimination of false alarms when dealing with multipath
- Improves the accuracy of GNSS receiver in constrained environment, e.g. city
- Easy installation on most GNSS receivers
- Applicable to all BOC signals

## Potential applications

**Geolocation solution in aerospace, automotive, rail, or pedestrian in constrained urban type environment**

- GNSS on smartphone for urban transport
- Field service management

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*Patented invention, available under license*