

The GP2015 is a small format RF Front-end for Global Positioning System (GPS) receivers. Equivalent in performance to the GP2010 but in a TQFP package, this product is suited for size-critical applications as the RF area can be reduced by a factor of two to three using miniature surface mount passive components. The GP2015 is designed to operate from either 3 or 5 Volt supplies.

The input to the device is the L1 (1575.42MHz) Coarse-Acquisition (C/A) code Global Positioning signal from an antenna (via a low-noise pre-amplifier). The output is 2-bit quantised for subsequent signal processing in the digital domain. The GP2015 contains an on-chip synthesiser, mixers, AGC and a quantiser which provides Sign and Magnitude digital outputs. A minimum of external components is required to make a complete GPS front-end.

The device has been designed to operate with the GP2021 12-channel GPS Correlator and GP4020 GPS Baseband Processor, both available from Zarlink Semiconductor.

Features

- Ultra miniature TQFP package
- Low Voltage Operation (3V - 5V)
- Low Power - 200mW typ. (3V supply)
- C/A Code Compatible
- On-chip PLL including Complete VCO
- Triple Conversion Receiver
- 48-Lead Surface Mount Quad Flat-Pack Package
- Sign and Magnitude Digital Outputs
- Compatible with GP2021 and GP4020 Correlators

Applications

- C/A Code Global Positioning by Satellite Receivers
- Time Standards
- Navigation
- Surveying

Related Products and Publications

Part	Description	Data Reference
GP2021	Twelve-Channel Correlator	DS4057
GP4020	GPS Baseband Processor	DS5134
App. Note	GPS ORION 12 Channel GPS Receiver Reference Design	AN4808
App. Note	GP2000 GPS Receiver Hardware Design	AN4856
App. Brief	GP2010/GP2015: Using Murata SAFLA35M4VCO200 SAW Filter	AB5202

DS4074

ISSUE 3.1

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Ordering Information

GP2015 IG FP1N (Trays, Bake & Drypack)
 (Supersedes GP2015 IG FP1R)
GP2015 IG FP1Q (Tape mounted, Bake & Drypack)
 48 pin TQFP (-40°C to +85°C)

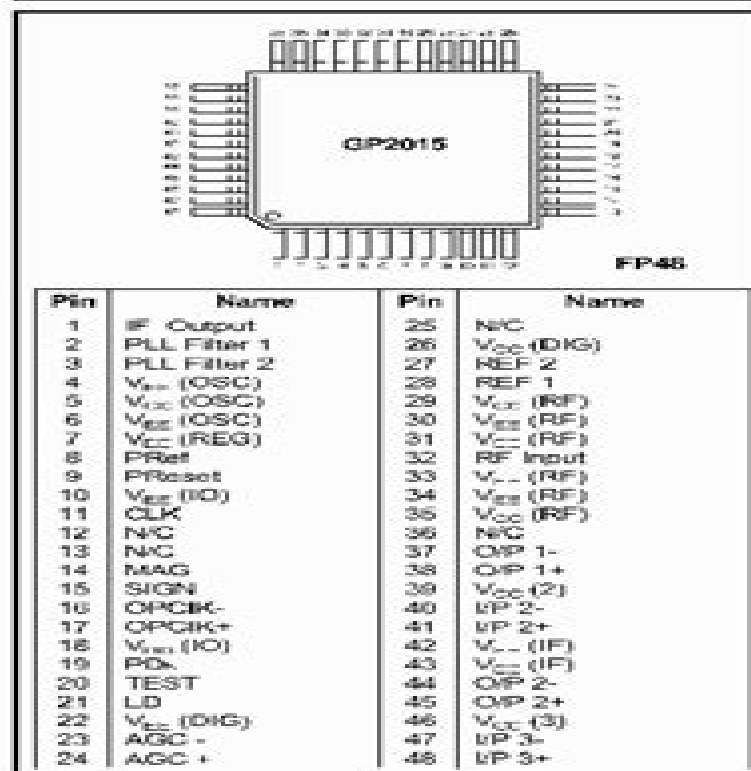


Figure 1 - Pin connections - top view

Gp2015 User Manual

Glenn Weisfeld



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Table of Contents Gp2015 User Manual

1. Understanding the eBook Gp2015 User Manual
 - The Rise of Digital Reading Gp2015 User Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Gp2015 User Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gp2015 User Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gp2015 User Manual
 - Personalized Recommendations
 - Gp2015 User Manual User Reviews and Ratings

- Gp2015 User Manual and Bestseller Lists
- 5. Accessing Gp2015 User Manual Free and Paid eBooks
 - Gp2015 User Manual Public Domain eBooks
 - Gp2015 User Manual eBook Subscription Services
 - Gp2015 User Manual Budget-Friendly Options
- 6. Navigating Gp2015 User Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Gp2015 User Manual Compatibility with Devices
 - Gp2015 User Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gp2015 User Manual
 - Highlighting and Note-Taking Gp2015 User Manual
 - Interactive Elements Gp2015 User Manual
- 8. Staying Engaged with Gp2015 User Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gp2015 User Manual
- 9. Balancing eBooks and Physical Books Gp2015 User Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gp2015 User Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gp2015 User Manual
 - Setting Reading Goals Gp2015 User Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gp2015 User Manual
 - Fact-Checking eBook Content of Gp2015 User Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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