

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 SAJJA35M4VW00200 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)

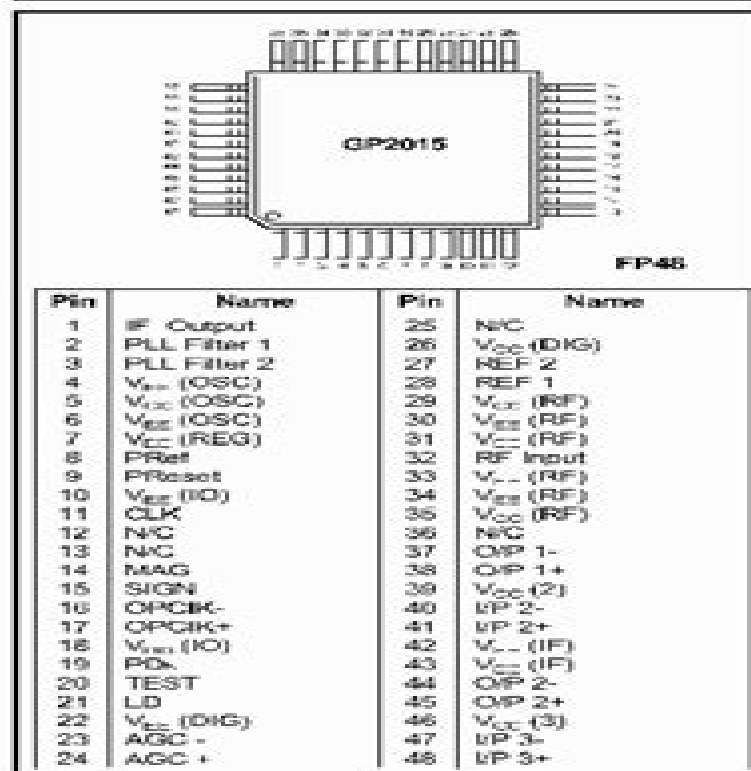


Figure 1 - Pin connections - top view

Gp2015 User Manual

Liyong Dong



Gp2015 User Manual:

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Gp2015 User Manual**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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