



## WR-12 Radar Front End 76 - 77GHz **FMCW-12-00XX**

**Farran's 77 GHz FMCW Radar Front End is based on a GaAs MMIC chipset offering wide bandwidth in a small outline package.**

**The FMCW modules are designed to offer the end user flexibility to integrate with their own swept FMCW source & IF post processing systems**

These compact and lightweight modules take a swept LO input @ 9.625GHz & internally multiply & condition for use as the transmit and local oscillator signals for the FMCW front end.

The receiver gain is customisable and can be adjusted to match system requirements.

The transmitter output power is also very flexible with various power options from +10 to +25dBm options available

### **With Farran's FMCW solution you can:**

- Create a clean high power FMCW signal at 77GHz
- Receive a 77GHz signal with excellent dynamic range
- Hence produce a highly sensitive, long range FMCW system at 77GHz

"I have been working with Farran for around 10 years and have found them to be very knowledgeable, helpful, customer orientated with great products. Work has included supply of standard line items, bespoke designs, advice, and modifications, enabling key features in our products. I see Farran as a key partner for many years to come."

**Richard Poulton, Hardware Team Leader, Navtech Radar**



### **ADDITIONAL FEATURES**

- Stable and lightweight
- Supports FMCW modulation schemes
- Customised performance available



### **APPLICATIONS**

- Collision avoidance
- Traffic management
- Perimeter Security
- Airport runway Foreign Object Detection (FOD)



- FMCW homodyne architecture
- Bi-Static antenna configuration
- Compact design
- Low DC power requirements
- Custom designs available



## Product Features and Benefits

Farran's WR-12 77GHz FMCW front end module offers the ability to create a long range, high sensitivity FMCW system

It achieves this by giving the end user the flexibility of a front end that offers leading edge noise figure, flexible choice of transmit power & total flexibility on the IF output to the end users post processing circuitry.



### SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support

For more information on any of our products or services please visit our website: [www.farran.com](http://www.farran.com)



### TECHNICAL SUPPORT

- Technical support provided directly by our knowledgeable and friendly engineers.
- Support for pre- and post-purchase: system configuration, installation and troubleshooting.



### GLOBAL REP NETWORK

- Support queries answered by our responsive Global Rep Network in over 25 countries worldwide.



### WARRANTY

- Standard 1 year warranty.
- Up to 3 year warranty optional.

### ADDITIONAL INFORMATION

- Custom solutions available.
- For a full check of compatibility with your equipment contact Farran Support on: [www.farran.com/support](http://www.farran.com/support)

