

**NEW!**

# MI-WAVE

Millimeter Wave Products Inc.

## FREQUENCY SYNTHESIZERS



### MI-WAVE SYNTHESIZER CONTROL INTERFACE

#### APPLICATIONS

- Automated Test Equipment (ATE)
- Frequency Agile Radar Signal Generation
- Local Oscillators & System Clock Source
- Telecommunications/Satellite Communications
- Embedded Systems
- Secure Communications & Electronic Warfare
- Beamforming & MIMO R&D
- Spectroscopy

#### FEATURES

- **Output Power +20 dBm Typical, Higher Output Power Available**
- **Remote RF Control:** Seamlessly operate RF signals via an intuitive GUI over Wi-Fi or Ethernet.
- **Four Operating Modes:** CW, Frequency Sweep, Frequency Hop, and External Trigger.
- **Modulation:** Supports external configuration for FSK modulation.
- **CW Mode Filter:** Customizable internal filter for precise and clean signal output.
- **High Resolution:** Achieve fine frequency adjustments with 0.01 Hz resolution.
- **Ultra-Fast Switching:** Less than 10  $\mu$ s for rapid frequency transitions.
- **Integrated Attenuators:** Up to 70 dB attenuation for enhanced signal management.
- **Low Phase Noise:** Ensures outstanding signal clarity and quality.
- **Reference Switching:** Easily switch between internal and external references, including an integrated 10 MHz or 100 MHz option.
- **Reference Compatibility:** Supports a wide range of reference frequencies, from 10 MHz to 500 MHz.
- **Temperature Monitoring:** Built-in sensor for stable and consistent performance.
- **Single Supply Operation:** Efficiently runs on 8VDC to 15VDC power.

### 958 SERIES

#### GUI CONTROLLED WIDEBAND SYNTHESIZERS

0.1-8 GHz

0.1-16 GHz

0.1-32 GHz

0.1-70GHz

V-Band (WR-15)

E-Band (WR-12)

W-Band (WR-10)



2007 Gandy Blvd N Suite 1310  
St. Petersburg, FL 33702

Tel: (727) 563-0034

Email: [sales@miwv.com](mailto:sales@miwv.com)



ES France - Département RF & Hyperfréquences  
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 60  
Fax. 01 47 01 16 22



e-mail : [hyper@es-france.com](mailto:hyper@es-france.com)  
Site Web : [www.es-france.com](http://www.es-france.com)

## Features:

- **Output Power +20 dBm Typical, Higher Output Power Available**
- **Remote RF Control:** Seamlessly operate RF signals via an intuitive GUI over Wi-Fi or Ethernet.
- **Four Operating Modes:** CW, Frequency Sweep, Frequency Hop, and External Trigger.
- **Modulation:** Supports external configuration for FSK modulation.
- **CW Mode Filter:** Customizable internal filter for precise and clean signal output.
- **High Resolution:** Achieve fine frequency adjustments with 0.01 Hz resolution.
- **Ultra-Fast Switching:** Less than 10  $\mu$ s for rapid frequency transitions.
- **Integrated Attenuators:** Up to 70 dB attenuation for enhanced signal management.
- **Low Phase Noise:** Ensures outstanding signal clarity and quality.
- **Reference Switching:** Easily switch between internal and external references with a 10 MHz or 100 MHz option.
- **Reference Compatibility:** Supports a wide range of reference frequencies, from 10 MHz to 500 MHz.
- **Temperature Monitoring:** Built-in sensor for stable and consistent performance.
- **Single Supply Operation:** Efficiently runs on 8VDC to 15VDC power.

## Applications:

- **Automated Test Equipment (ATE)**
- **Frequency Agile Radar Signal Generation**
- **Local Oscillators & System Clock Source**
- **Telecommunications/Satellite Communications**
- **Embedded Systems**
- **Secure Communications & Electronic Warfare**
- **Beamforming & MIMO R&D**
- **Spectroscopy**



|   |  |
|---|--|
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| 1 |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

The material presented in this datasheet was current at the time of publication. Mi-Wave’s continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave’s general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18



|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18



|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18





The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18



**ES France - Département RF & Hyperfréquences**  
127 rue de Buzenval BP 26 - 92380 Garches



**Tél. 01 47 95 99 60**  
**Fax. 01 47 01 16 22**



**e-mail : [hyper@es-france.com](mailto:hyper@es-france.com)**  
**Site Web : [www.es-france.com](http://www.es-france.com)**

The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18



**ES France - Département RF & Hyperfréquences**  
127 rue de Buzenval BP 26 - 92380 Garches



**Tél. 01 47 95 99 60**  
**Fax. 01 47 01 16 22**



**e-mail : [hyper@es-france.com](mailto:hyper@es-france.com)**  
**Site Web : [www.es-france.com](http://www.es-france.com)**

The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18



**ES France - Département RF & Hyperfréquences**  
127 rue de Buzenval BP 26 - 92380 Garches



**Tél. 01 47 95 99 60**  
**Fax. 01 47 01 16 22**



**e-mail : [hyper@es-france.com](mailto:hyper@es-france.com)**  
**Site Web : [www.es-france.com](http://www.es-france.com)**