



Advanced Test Equipment Corp.

www.atecorp.com 800-404-ATEC (2832)

Grand 5G Portable mmWave CW Transmitter

High-power Signal up to 40 GHz



Grand 5G test transmitter is a portable high-power signal generator that brings simplicity and affordability to mmWave test scenarios required for indoor and outdoor 5G network planning.

The RF performance of the handheld device makes it ideal for field applications as well as several laboratory use cases. Thanks to its calibrated output and wide range of operation covering frequencies from 24 to 30 GHz and from 36 to 40 GHz.

With unprecedented output power levels up to 33 dBm, the transmitter significantly exceeds the maximum power levels attained by any other portable transmitter or traditional bench-top signal generators.

The tool is engineered for maximum ease-of-use. Among the embodied features are the ergonomic form factor, direct user control through 2 buttons, simple LCD screen and the low power consumption that allows extended operation using an external battery pack for maximum flexibility.

Performance

- 1 ppm frequency accuracy (0.3 ppm optional)
- 40 GHz frequency range
- 33 dBm max. output power
- Low power consumption

Convenience

- Intuitive user interface
- Ergonomic form factor
- 4.3 Kg weight (9.5 lbs)
- High-grade test accessories





Specifications			
RF Characteristics	Grand 5G	Grand 5G-Light	Grand 5G-Max
Frequency Range	24 to 30 GHz & 36 to 40 GHz		24.8 to 30 GHz
Frequency Step	1 MHz		
Modulation	CW (Continuous Wave Carrier)		
Frequency Settings	Up and Down Buttons		
Frequency Accuracy*	± 1 ppm (optional 0.3 ppm)		
Reference Frequency Aging	± 1 ppm/year		
RF Output Power	Grand 5G	Grand 5G-Light	Grand 5G-Max
	31 dBm: 24 to 25 GHz 33 dBm: 25 to 30 GHz 31 dBm: 36 to 37 GHz 30 dBm: 37 to 38.8 GHz 29 dBm: 38.8 to 40 GHz	29 dBm: 24 to 24.5 GHz 30 dBm: 24.5 to 25.4 GHz 31.5 dBm: 25.4 to 30 GHz 30 dBm: 36 to 38 GHz 29 dBm: 38 to 40 GHz	31 dBm: 24.8 to 25.2 GHz 33 dBm: 25.2 to 26 GHz 35 dBm: 26 to 28.2 GHz 36 dBm: 28.2 to 29.4 GHz 35 dBm: 29.4 to 30 GHz
Level Accuracy*	± 1 dB; typ. 0.5 dB		
Level Settings	Fixed		
Level Stability	± 1 dB		
RF Output Interface	Female 2.92mm (K) Connector		
Power Supply			
External Battery Pack (option)	3 to 4.5 Hours (depending on output level) @ continuous RF transmission		
AC/DC Adapter	Input: 100-240 VAC, 50-60 Hz / Output: 28 VDC, 3.5 A		
DC Input	Power Jack 2.1 mm ID 5.5 mm OD		
Physical			
External Dimensions	(H) 140 mm, (W) 340 mm, (D) 240 mm		
Weight	4.3 Kg (9.5 lbs). Additional 2.5 Kg (5.52 lbs) for external battery pack		
Operating Temp	0 to 40 °C (32 to 104 °F)		
Certifications	FCC and EN55022/CISPR 22 EMI		
Standard Package	Transmitter, Quick Guide and AC/DC adapter		

* Parameters specified after 15-minute warm-up time @ temperature 25 °C (77 °F)

Ordering Information	
Portable mmWave Signal Generator; 24 to 30 GHz & 36 to 40 GHz, max. 33 dBm (refer to power table)	Consultix Grand 5G
Portable mmWave Signal Generator; 24 to 30 GHz & 36 to 40 GHz, max. 31.5 dBm	Consultix Grand 5G-Light
Portable mmWave Signal Generator; 24.8 to 30 GHz, Max. 36 dBm (refer to power table)	Consultix Grand 5G-Max
Portable mmWave Signal Generator; 24 to 30 GHz, max. 33 dBm (refer to power table)	Consultix Grand 5G-L
Portable mmWave Signal Generator; 36 to 40 GHz, max. 31 dBm (refer to power table)	Consultix Grand 5G-H
License Upgrade of Grand 5G-L or H to full band 24 GHz to 30 GHz & 36 GHz to 40 GHz	Consultix Grand 5G-SFB
High Frequency Accuracy (0.5 ppm; typ. 0.3 ppm) option for Grand 5G transmitter	Grand 5G-HFA
Precision test cable; 3ft (90 cm), 40 GHz, 2.9mm (male-male), 2.96 dB Loss @ 40 GHz	C5G-Acc-C29
Omnidirectional Antenna 26 to 40 GHz, 7.5 dBi Gain, 2.92 mm K(F)	C5G-Acc-OA75
Omnidirectional Antenna 26.5 to 40 GHz, 3 dBi Gain, 2.92 mm K(F)	C5G-Acc-OA3
Waveguide Horn Antenna 26.5 to 40 GHz, 15 dBi Gain, 2.92 mm K(F)	C5G-Acc-HA15
External Battery-Pack for Grand 5G Transmitter; 3 to 4.5 Hours (depending on output level) @ continuous RF transmission	Grand 5G-BatPack

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