

Consultix 5G CW transmitter

Portable signal from 25 to 28.6 GHz



Consultix 5G test transmitter is a portable RF signal generator that brings simplicity and affordability to microwave test scenarios pertinent to 5G applications.

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 25 GHz to 28.6 GHz

With an unprecedented output power level of up to 20 dBm, the transmitter significantly exceeds the maximum power levels attained by traditional bench-top signal generators.

The tool is engineered for maximum ease of operation. Among the embodied features are the ergonomic form factor, direct user control through 2 buttons, simple LCD screen and low power consumption that allows powering by commercial power banks for maximum field convenience and flexibility.



www.consultixwireless.com

Charifications				
Specifications				
RF Characteristics				
Frequency Range	25 GHz to 28.6 GHz (overrange up to 30 GHz)			
Frequency Step	1 MHz			
Modulation	CW (Continuous Wave Carrier)			
Frequency Settings	Up and Down Buttons			
Frequency Accuracy	± 2ppm*			
Output Power Level	12 dBm to 20 dBm. Refer to Output Power Table Below (Amplifier Options Available)			
Level Accuracy	± 2 dB*			
Level Settings	Fixed			
Non-Harmonic Spurious	-33 dBc @27 GHz			
Phase Noise	-108 dBc/Hz @ 1 MHz Offset from Carrier			
RF Output Interface	Female 2.92mm (K) Connector			
Power Supply				
AC Adapter	Input: 100-240 VAC, 50-60 Hz / Output: 12 VDC, 2A			
DC Input	Power Jack 2.1 mm ID 5.5 mm OD			
Physical				
External Dimensions	(H) 110 mm, (W) 260 mm, (D) 280 mm			
Weight	3 Kg			
Operating Temp	0 to 50 °C			
Standard Package	Transmitter, Short Guide and AC/DC adapter			

Output Power Table

Frequency (GHz)	Output power (dBm)			
25	12	Output Power vs Frequency		
25.2	13	25		
25.4	16	22.5		
25.6	18			
25.8	18	20		
26	18	17.5		
26.2	18			
26.4	16	(Legisland Constraints of the second constra		
26.6	16	912.5		
26.8	17			
27	18			
27.2	19	7.5		
27.4	20	5		
27.6	17			
27.8	14	2.5		
28	12	0		
28.2	12	25 25.2 25.4 25.6 25.8 26 26.2 26.4 26.6 26.8 27 27.2 27.4 27.6 27.8 28 28.2 28.4 28.6 Frequency (GHz)		
28.4	12			
28.6	12			

28.6 12				
Ordering Information				
Consultix 5G Portable Signal Generator		Consultix-5G-TX		
Ultra-flexible Cable; 40 GHz, 3ft Length, 3.3 dB Insertion Loss		C5G-Acc-C29		
Omnidirectional Antenna 26.5 to 40 GHz, 7.5 dBi Gain, 2.92 mm K(F)		K(F) C5G-Acc-OA75		
Omnidirectional Anter	nna 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)		K(F) C5G-Acc-HA15		
High Power Amplifiers	5	Ask for Available Optional Amplifiers		

* Accuracy is specified after warm-up time @ temperature 25 - 30 \mbox{C}°

Find us:

Building 57A, 2nd district, 6th area, El-Teseen st.11835, New Cairo, Egypt. +2 02 25647370 info@consultixwireless.com