



Consultix WTX-610 ILLUMINATOR™ Multi-Standard Modulated Transmitter to 6 GHz

One Device. All Missions



Multi-Standard Modulated Transmitter

- CW
 - WCDMA
 - LTE
- 200 MHz to 6000 MHz
Up to +40 dBm / 10 Watt

Consultix WTX-610 ILLUMINATOR™ is the gold standard for test transmitters. Using modulated signals for testing is vital to ensure dominance, avoid pilot pollution and validate the carrier configuration prior to deployment. Wideband operation up to 6 GHz allows the ILLUMINATOR™ to address all your future needs even over unlicensed bands for LTE-U and LAA or the CBRS Band. These features combined with the ultra-portable handheld form factor and innovative touch interface for maximum ease of use make the WTX-610 ILLUMINATOR™ the ideal choice for InBuilding and SmallCell professionals everywhere. The built-in wideband power amplifier extends the ILLUMINATOR's capabilities to high power missions, whether for oDAS test and design or for performing outdoor CW model calibration.

Smart

- CW, LTE & WCDMA modulations
- 200 to 6000 MHz in a single device
- 10 Watt (Built-in Option)
- 1 KHz frequency resolution
- 1 dB Accuracy (Typ.)
- License upgradeable
- Up to 6 Hours Battery Operation

Fit

- Light weight 1.6 Kg (3.5 lbs.)
- Handheld & heavy-duty
- Touch screen operation
- Friendly user interface
- Ergonomic enclosure



Specifications		
RF Characteristics		
RF Ports	Port 1 (Standard), Port 2 (Optional)	
Frequency Range	Continuous Wave: 200 MHz to 6 GHz Modulated: 700 MHz to 1000 MHz and 1700 MHz to 2700 MHz	
Internal Frequency Accuracy	1 ppm	
Frequency Step	1 KHz	
Output Power Level Steps	1 dB	
Level Accuracy	± 2 dB (Typ. 1 dB)	
RF Interfaces	50 Ohm	
Modulations	Continuous Wave (CW), LTE-FDD (optional) and WCDMA (optional)	
LTE Settings	Cell ID (Synchronization Reference Signal) and Bandwidth	
LTE BW	5 MHz (10 MHz Optional)	
WCDMA Settings	Scrambling Code	
RF Port 1	Continuous Wave	Modulated (Requires Modulation License)
Output Power	-10 dBm to 15 dBm at 200 to 4800 MHz -10 dBm to 10 dBm at 4800 to 5500 MHz -10 dBm to 5 dBm at 5500 to 6000 MHz	-10 dBm to 15 dBm at 700 to 1000 MHz and 1700 to 2700 MHz
Harmonics	≤-30 dBc at Maximum Output Power	≤-20 dBc at Maximum Output Power
RF Port 2 (Requires Port 2 Activation)	Continuous Wave	Modulated (Requires Modulation License)
Output Power	20 dBm to 40 dBm (10 Watt) at 350 to 2700 MHz	30 dBm to 33 dBm (2 Watt) at 700 to 1000 MHz and 1700 to 2700 MHz
Harmonics	≤-20 dBc at 30 dBm Output Power ≤-10 dBc at 40 dBm Output Power	≤-12 dBc (Typ. -16 dBc) at Maximum Output Power
Power Supply		
Input Power	9 to 12 VDC 17 W Max (For Base Unit without Amplifier) 28 VDC 45 W Max (For Base Unit with Amplifier)	
Battery (Requires Internal Battery Option)	Li-ion, 7.4V 10200 mAh	
Battery Operation Time	6 Hours (At Continuous Maximum Output Power)	
Physical Characteristics		
External Dimensions	L220 x W100 x H62 mm	
Weight	1.1 Kg (2.4 lb) 1.6 Kg (3.5 lb) with Amplifier	
Operating Temperature	-10 to +40 C	
Interfaces	N-Type Female, SMA Female, USB and DC Input	
Standard Package	Transmitter, AC/DC Adapter, Hard Carrying Case, Stylus Pen and User Manual	

Ordering Information	
Base Unit. Single Port. Requires at Least One Frequency Range License	WTX-610 ILLUMINATOR
Frequency Range License: 200 MHz to 6 GHz	iL-WB
Frequency Range License: 200 MHz to 600 MHz	iL-B1
Frequency Range License: 600 MHz to 2.7 GHz	iL-B2
Frequency Range License: 2.7 GHz to 3.9 GHz	iL-B3
Frequency Range License: 3.9 GHz to 6 GHz	iL-B4
Port 2 Activation, 2 Watt Built-in Amplifier, 350 MHz to 2700 MHz. Factory Retrofit	iL-P22
Port 2 Activation, 10 Watt Built-in Amplifier, 350 MHz to 2700 MHz. Factory Retrofit	iL-P2
5 MHz LTE-FDD Modulation License (Supports LTE Scanners)	iL-LTE-FDD5
10 MHz LTE-FDD Modulation License (Supports LTE Scanners)	iL-LTE-FDD10
LTE-FDD Handset Support License (Supports Test Phones*). Select 3 Bands	iL-LTE-FDD-UE3
LTE-FDD Handset Support License (Supports Test Phones*). Select 6 Bands	iL-LTE-FDD-UE6
WCDMA Modulation License	iL-UMTS
Internal Battery Option. 6 Hours Continuous Operation**	iL-Bat

* Test Phones With PCI Advanced Forcing or PCI Locking Capability. Refer to Us for Recommended Models

**Battery Option is Available Only with Low Power Mode, Port 2 Activation Replaces Internal Battery

Find us:

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