



# 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
- CBRS & C-band covered
- Up to +40 dBm / 10 Watts

Consultix WTX-610 ILLUMINATOR™ is the gold standard for test transmitters. Using modulated signals for testing is sometimes vital if you need 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 by covering traditional VHF and cellular bands up to C-band and 5.8 GHz wireless networks. These capabilities 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 in-building and small cells 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 hour battery operation

### Fit

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

<b>Specifications</b>		
<b>RF Characteristics</b>		
RF Ports	Low-power (port 1) is standard and high-power (port 2) is optional. One port transmits at a time	
Frequency Range	CW	Modulated (Requires Modulation License)
	200 MHz to 6 GHz (As per selected Frequency Range)	700 to 1000 MHz & 1700 to 2700 MHz 3400 to 4000 MHz (Opt. FDD5-3) 4000 to 4950 MHz (Opt. FDD5-4)
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	
WCDMA Settings	Scrambling Code	
<b>Output Levels</b>	<b>CW</b>	<b>Modulated</b>
<b>RF Port 1</b>		
Min. Output Power	-10 dBm	-10 dBm
Max. Output Power	15 dBm: 200 to 4800 MHz 10 dBm: 4800 to 5500 MHz 5 dBm : 5500 to 6000 MHz	15 dBm: 700 to 1000 MHz & 1700 to 2700 MHz 10 dBm: 3400 to 4000 MHz (FDD5-3) 5 dBm: 4000.1 to 4950 MHz (FDD5-4)
Harmonics	≤-30 dBc at Maximum Output Power	≤-20 dBc at Maximum Output Power
<b>Port 2 (with amplifier option iL-P2; 350 to 2700 MHz)</b>		
Min. Output Power	20 dBm	30 dBm
Max. Output Power	40 dBm	33 dBm
<b>Port 2 (with amplifier option iL-P3; 3400 to 3800 MHz)</b>		
Min. Output Power	15 dBm	15 dBm
Max. Output Power	33 dBm	27 dBm: 3400 to 3500 MHz 21 dBm: 3500.1 to 3800 MHz
<b>Port 2 (with amplifier option iL-P22; 350 to 2700 MHz)</b>		
Min. Output Power	20 dBm	30 dBm
Max. Output Power	33 dBm	33 dBm
<b>Port 2 (with amplifier option iL-P4; 300 to 3700 MHz)</b>		
Min. Output Power	20 dBm	17 dBm
Max. Output Power	37 dBm; 300 to 2700 MHz 33 dBm; 2700 to 3500 MHz 31 dBm; 3500 to 3600 MHz 29 dBm; 3600 to 3700 MHz	23 dBm; 300 to 2700 MHz 20 dBm; 2700 to 3500 MHz 20 dBm; 3500 to 3600 MHz 17 dBm; 3600 to 3700 MHz
<b>Power Supply</b>		
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)	
<b>Physical Characteristics</b>		
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	
Certifications	FCC CE (EMC; EN55011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-1) ROHS	
<b>Standard Package</b>	Transmitter, AC/DC Adapter, Hard Carrying Case, Stylus Pen and User Manual	

\*Modulated power level is the RSSI measured over the entire bandwidth of occupied resource blocks. RSRP value is 22 dB below RSSI level

## 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 4 GHz	iL-B3
Frequency Range License: 4 GHz to 6 GHz	iL-B4
Port 2 Activation, 2 Watt Built-in Amplifier, 350 MHz to 2700 MHz, Continuous Wave. Factory Retrofit	iL-P22
Port 2 Activation, 10 Watt Built-in Amplifier, 350 MHz to 2700 MHz, Continuous Wave. Factory Retrofit	iL-P2
Port 2 Activation; 2-Watt Built-in Amplifier; 3400 to 3800 MHz. Factory retrofit	iL-P3
Port 2 Activation; 5-Watt Built-in Amplifier; 300 to 3700 MHz (check power level table). Factory retrofit	iL-P4
5 MHz LTE-FDD Modulation License (Supports LTE Scanners): 700 to 1000 & 1700 to 2700 MHz	iL-LTE-FDD5
5 MHz LTE-FDD Modulation License (Supports LTE Scanners): 3400 to 4000 MHz	iL-LTE-FDD5-3
5 MHz LTE-FDD Modulation License (Supports LTE Scanners): 4000 to 4950 MHz	iL-LTE-FDD5-4
WCDMA Modulation License (Supports UMTS Scanners)	iL-UMTS
Internal Battery Option*	iL-Bat

\*Battery option is available only with low power mode. Port 2 amplifier replaces internal battery



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