

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

One Device, All Missions









**Multi-Standard Modulated** 

- CW
- WCDMA

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 Amplifier (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

RF Ports	Specifications			
CW   Modulated (Requires Modulation License)   200 MHz to 6 GHz   2400 to 4500 MHz (Dpt. PDD5-3)   4000 to 4500 MHz (Dpt. PDD5-4)   4000 MHz (Dpt. PDD6-4)   400				
Terquency Range	IV FUILS			
Frequency Step	Frequency Range	200 MHz to 6 GHz	700 to 1000 MHz & 1700 to 2700 MHz 3400 to 4000 MHz (Opt. FDD5-3)	
Dutput Power Level Steps	Internal Frequency Accuracy		1 ppm	
Level Accuracy	Frequency Step			
RF Interfaces   So Ohm	Output Power Level Steps	1 dB		
Modulations	Level Accuracy	± 2 dB (Typ. 1 dB)		
LTE Settings	RF Interfaces	50 Ohm		
TEBW   Start	Modulations	Continuous Wave (CW), LTE-FDD (optional)* and WCDMA (optional)		
WCDMA Settings         CW         Modulated           F Port 1         FP Ort 1         FP Ort 1           Min. Output Power         -10 dBm         -10 dBm           Max. Output Power         15 dBm: 200 to 4800 MHz         15 dBm: 700 to 1000 MHz & 1700 to 2700 MHz           Harmonics         -5 dBm: 5500 to 6000 MHz         5 dBm: 4000.1 to 4950 MHz (FDD5-4)           Harmonics         -30 dBc at Maximum Output Power         -5 dBm: 4000.1 to 4950 MHz (FDD5-4)           Min. Output Power         20 dBm         30 dBm           Max. Output Power         40 dBm         33 dBm           Max. Output Power         40 dBm         33 dBm           Port 2 (with amplifier option iL-P3; 3400 to 3800 MHz)         15 dBm         33 dBm           Min. Output Power         15 dBm         15 dBm           Max. Output Power         33 dBm         27 dBm: 3400 to 3500 MHz           Min. Output Power         20 dBm         30 dBm           Max. Output Power         20 dBm         30 dBm           Max. Output Power         20 dBm         30 dBm           Max. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         3 dBm; 2700 to 3500 MHz         33 dBm; 2700 to 3500 MHz         21 dBm; 3600-3700 MHz           Max.	LTE Settings			
Output Levels         CW         Modulated           RF Port 1	LTE BW			
Output Levels         CW         Modulated           RF Port 1	WCDMA Settings			
RF Port 1	<u> </u>			
Min. Output Power	<u> </u>			
15 dBm: 200 to 4800 MHz   15 dBm: 700 to 1000 MHz & 1700 to 2700 MHz   10 dBm: 3400 to 5500 MHz   10 dBm: 3400 to 4000 MHz & 10 dBm: 3400 to 4000 MHz & 1700 to 2700 MHz   10 dBm: 3400 to 4000 MHz & 1700 to 2700 MHz   10 dBm: 3400 to 4000 MHz & 1700 to 3700 MHz   10 dBm: 3400 to 4000 MHz & 1700 to 3700 MHz   10 dBm: 3400 to 4000 MHz & 10 dBm: 3400 to 3800 MHz   10 dBm: 3400 to 3800 MHz   10 dBm: 30 dBm		-10 dBm	-10 dBm	
Port 2 (with amplifier option iL-P2; 200 to 2700 MHz)         Min. Output Power         20 dBm         30 dBm           Max. Output Power         40 dBm         33 dBm           Port 2 (with amplifier option iL-P3; 3400 to 3800 MHz)         Image: Company of the power of the pow		15 dBm: 200 to 4800 MHz 10 dBm: 4800 to 5500 MHz	15 dBm: 700 to 1000 MHz & 1700 to 2700 MHz 10 dBm: 3400 to 4000 MHz (FDD5-3)	
Min. Output Power         20 dBm         30 dBm           Max. Output Power         40 dBm         33 dBm           Port 2 (with amplifier option iL-P3; 3400 to 3800 MHz)         15 dBm         15 dBm           Max. Output Power         15 dBm         15 dBm         27 dBm; 3400 to 3500 MHz           Max. Output Power         33 dBm         27 dBm; 3500,1 to 3800 MHz         21 dBm; 3500,1 to 3800 MHz           Port 2 (with amplifier option iL-P2; 200 to 2700 MHz)         30 dBm         30 dBm           Min. Output Power         33 dBm         33 dBm         33 dBm           Port 2 (with amplifier option iL-P4; 200 to 3700 MHz)         33 dBm         33 dBm         33 dBm           Max. Output Power         20 dBm         17 to 30 dBm (depends on band)         17 to 30 dBm (depends on band)           Max. Output Power         33 dBm; 200 to 2700 MHz 33 dBm; 3500 to 3600 MHz 29 dBm; 3600 to 3700 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz 27 dBm; 3400-3600 MHz 28 VDC 45 W Max (For Base Unit without Amplifier)           Power Supply         9 to 12 VDC 17 W Max (For Base Unit without Amplifier)         28 VDC 45 W Max (For Base Unit without Amplifier)           Battery Operation Time         6 Hours (At Continuous Maximum Output Power)         11 Kg (2,4 lb) 1.6 Kg (3.5 lb) with Amplifier           Wei	Harmonics	≤-30 dBc at Maximum Output Power	≤-20 dBc at Maximum Output Power	
Max. Output Power         40 dBm         33 dBm           Port 2 (with amplifier option itP3; 3400 to 3800 MHz)         15 dBm         15 dBm           Max. Output Power         15 dBm         15 dBm           Max. Output Power         33 dBm         27 dBm: 3400 to 3500 MHz           Port 2 (with amplifier option itP2; 200 to 2700 MHz)         21 dBm: 3500.1 to 3800 MHz           Min. Output Power         20 dBm         30 dBm           Max. Output Power         33 dBm         33 dBm           Port 2 (with amplifier option itP4; 200 to 3700 MHz)         33 dBm         33 dBm           Min. Output Power         20 dBm         17 to 30 dBm (depends on band)           Min. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         20 dBm         31 dBm; 700-1000 MHz & 1700-2700 MHz           33 dBm; 2700 to 3500 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz           40 dBm; 3500 to 3600 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz           20 dBm; 3500 to 3600 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz           40 dBm; 3500 to 3600 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz           Battery Supply         9 to 12 VDC 17 W Max (For Base Unit without Amplifier)           Battery (Requires Internal Battery Option)         1 Li-ion, 7.4V 10200 mAh	Port 2 (with amplifier option iL-P2; 200 to 27	700 MHz)		
Port 2 (with amplifier option iL-P3; 3400 to 3800 MHz)         15 dBm         15 dBm           Min. Output Power         15 dBm         27 dBm: 3400 to 3500 MHz           Max. Output Power         33 dBm         27 dBm: 3400 to 3500 MHz           Port 2 (with amplifier option iL-P22; 200 to 2700 MHz)         21 dBm: 3500.1 to 3800 MHz           Min. Output Power         20 dBm         30 dBm           Max. Output Power         33 dBm         33 dBm           Port 2 (with amplifier option iL-P4; 200 to 3700 MHz)         17 to 30 dBm (depends on band)           Min. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         33 dBm; 200 to 2700 MHz         27 dBm; 3400-3600 MHz           31 dBm; 3500 to 3500 MHz         27 dBm; 3400-3600 MHz         27 dBm; 3400-3600 MHz           21 dBm; 3600-3700 MHz         21 dBm; 3600-3700 MHz         21 dBm; 3600-3700 MHz           Power Supply           Input Power         9 to 12 VDC 17 W Max (For Base Unit without Amplifier)           Battery (Requires Internal Battery Option)         1 Li-in, 7,4V 10200 mAh           Battery (Requires Internal Battery Option)         6 Hours (At Contin	Min. Output Power	20 dBm	30 dBm	
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           Port 2 (with amplifier option iL-P22; 200 to 2700 MHz)         Secondary           Min. Output Power         20 dBm         30 dBm           Max. Output Power         33 dBm         33 dBm           Port 2 (with amplifier option iL-P4; 200 to 3700 MHz)         To 30 dBm (depends on band)           Min. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         37 dBm; 2700 to 2700 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz           33 dBm; 2700 to 3500 MHz 33 dBm; 2700 to 3500 MHz 23 dBm; 3500 to 3600 MHz 29 dBm; 3600 to 3700 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz           Power Supply         Power Supply         9 to 12 VDC 17 W Max (For Base Unit without Amplifier)           Battery (Requires Internal Battery Option)         1-ion, 7.4V 10200 mAh           Battery Operation Time         6 Hours (At Continuous Maximum Output Power)           Physical Characteristics         1.1 Kg (2.4 lb)           External Dimensions         1.20 x W100 x H62 mm           Weight         1.1 Kg (3.5 lb) with Amplifier           Operating Temperature         -10 to +40 C           Interfaces         N-Type Female, SMA Female, USB and DC Input	Max. Output Power	40 dBm	33 dBm	
Max. Output Power   33 dBm   27 dBm: 3400 to 3500 MHz 21 dBm: 3500.1 to 3800 MHz 30 dBm 30 dBm 30 dBm 33 dBm 30 dBm 40.	Port 2 (with amplifier option iL-P3; 3400 to 3	8800 MHz)		
Max. Output Power         33 dBm         21 dBm: 3500.1 to 3800 MHz           Port 2 (with amplifier option iL-P22; 200 to 2700 MHz)         Min. Output Power         20 dBm         30 dBm           Max. Output Power         33 dBm         33 dBm           Port 2 (with amplifier option iL-P4; 200 to 3700 MHz)         To 30 dBm (depends on band)           Min. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         20 dBm; 200 to 2700 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz           Max. Output Power         20 dBm; 3500 to 3600 MHz         27 dBm; 3400-3600 MHz           21 dBm; 3500 to 3600 MHz         21 dBm; 3600-3700 MHz         21 dBm; 3600-3700 MHz           Power Supply           Input Power         9 to 12 VDC 17 W Max (For Base Unit without Amplifier)           Battery (Requires Internal Battery Option)         Li-ion, 7.4V 10200 mAh           Battery Operation Time         6 Hours (At Continuous Maximum Output Power)           Physical Characteristics         L220 x W100 x H62 mm           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         1.0 to +40 C	Min. Output Power	15 dBm	15 dBm	
Min. Output Power         20 dBm         30 dBm           Max. Output Power         33 dBm         33 dBm           Port 2 (with amplifier option iL-P4; 200 to 3700 MHz)         The company of the power           Min. Output Power         20 dBm         17 to 30 dBm (depends on band)           Max. Output Power         20 dBm; 2700 to 2700 MHz 33 dBm; 700-1000 MHz & 1700-2700 MHz 27 dBm; 3400-3600 MHz 27 dBm; 3400-3600 MHz 29 dBm; 3600 to 3700 MHz         33 dBm; 700-1000 MHz & 1700-2700 MHz 27 dBm; 3400-3600 MHz 21 dBm; 3600-3700 MHz           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)         28 VDC 45 W Max (For Base Unit with Amplifier)           Battery (Requires Internal Battery Option)         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         1.1 Kg (2.4 lb)           Operating Temperature         -10 to +40 C           Interfaces         N-Type Female, SMA Female, USB and DC Input           Cet (EMC; ENS5011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-1; ROHS	Max. Output Power	33 dBm		
Max. Output Power     33 dBm     33 dBm       Port 2 (with amplifier option iL-P4; 200 to 370 MHz)     37 dBm; 200 to 2700 MHz 33 dBm; 700-1000 MHz & 170 to 30 dBm (depends on band)       Max. Output Power     20 dBm     17 to 30 dBm; depends on band)       Max. Output Power     37 dBm; 200 to 2700 MHz 33 dBm; 700-1000 MHz & 1700-2700 MHz 27 dBm; 3400-3600 MHz 27 dBm; 3500 to 3600 MHz 21 dBm; 3600-3700 MHz     27 dBm; 3400-3600 MHz 21 dBm; 3600-3700 MHz       Power Supply       Input Power     9 to 12 VDC 17 W Max (For Base Unit without Amplifier)       Battery (Requires Internal Battery Option)     Li-ion, 7.4V 10200 mAh       Battery Operation Time     6 Hours (At Continuous Maximum Output Power)       Physical Characteristics     L220 x W100 x H62 mm       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	Port 2 (with amplifier option iL-P22; 200 to 2	2700 MHz)		
Port 2 (with amplifier option iL-P4; 200 to 370 MHz)  Min. Output Power 20 dBm 17 to 30 dBm (depends on band)  Max. Output Power 33 dBm; 200 to 2700 MHz 33 dBm; 700-1000 MHz & 1700-2700 MHz 27 dBm; 3400-3600 MHz 29 dBm; 3600 to 3700 MHz 21 dBm; 3600-3700 MHz 21 dBm; 3600-3700 MHz 29 dBm; 3600 to 3700 MHz 21 dBm; 3600-3700 MHz 21 dBm; 3600-3700 MHz 29 dBm; 3600 to 3700 MHz 21 dBm; 3600-3700 MHz 21 dBm; 3600-3700 MHz 200 dBm; 3600 to 3700 MHz 21 dBm; 3600-3700	Min. Output Power	20 dBm	30 dBm	
Min. Output Power  20 dBm  17 to 30 dBm (depends on band)  37 dBm; 200 to 2700 MHz 33 dBm; 2700 to 3500 MHz 31 dBm; 3500 to 3600 MHz 21 dBm; 3400-3600 MHz 21 dBm; 3600-3700 MHz  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) 28 VDC 45 W Max (For Base Unit with Amplifier)  Battery (Requires Internal Battery Option)  Eattery Operation Time 6 Hours (At Continuous Maximum Output Power)  Physical Characteristics  External Dimensions  L220 x W100 x H62 mm  1.1 Kg (2.4 lb) 1.6 Kg (3.5 lb) with Amplifier  Operating Temperature  Operating Temperature  Interfaces  N-Type Female, SMA Female, USB and DC Input  FCC CE (EMC; EN55011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-11 ROHS	Max. Output Power	33 dBm	33 dBm	
Max. Output Power  37 dBm; 200 to 2700 MHz 33 dBm; 2700 to 3500 MHz 31 dBm; 3500 to 3600 MHz 29 dBm; 3600 to 3700 MHz 29 dBm; 3600 to 3700 MHz 29 dBm; 3600 to 3700 MHz  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)  Battery Operation Time 6 Hours (At Continuous Maximum Output Power)  Physical Characteristics  External Dimensions  L220 x W100 x H62 mm  1.1 Kg (2.4 lb) 1.6 Kg (3.5 lb) with Amplifier  Operating Temperature  Operating Temperature  Interfaces  N-Type Female, SMA Female, USB and DC Input  FCC CE (EMC; EN55011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-11 ROHS	Port 2 (with amplifier option iL-P4; 200 to 3700 MHz)			
Max. Output Power  33 dBm; 2700 to 3500 MHz 31 dBm; 3500 to 3600 MHz 29 dBm; 3600 to 3700 MHz 21 dBm; 3600-3700 MHz 21 dBm; 3600-370	Min. Output Power	20 dBm	17 to 30 dBm (depends on band)	
Input Power  9 to 12 VDC 17 W Max (For Base Unit without Amplifier) 28 VDC 45 W Max (For Base Unit with Amplifier) 28 VDC 45 W Max (For Base Unit with Amplifier)  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  1.1 Kg (2.4 lb) 1.6 Kg (3.5 lb) with Amplifier  Operating Temperature  Operating Temperature  N-Type Female, SMA Female, USB and DC Input  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	Max. Output Power	33 dBm; 2700 to 3500 MHz 31 dBm; 3500 to 3600 MHz	27 dBm; 3400-3600 MHz	
Battery (Requires Internal Battery Option)  Battery Operation Time  Physical Characteristics  External Dimensions  External Dimensions  L220 x W100 x H62 mm  1.1 Kg (2.4 lb) 1.6 Kg (3.5 lb) with Amplifier  Operating Temperature  Interfaces  N-Type Female, SMA Female, USB and DC Input  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	Power Supply			
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  FCC CET (EMC; EN55011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-1) ROHS	Input 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       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	Battery (Requires Internal Battery Option)			
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       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		6 Hours (At Continuous Maximum Output Power)		
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  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	Physical Characteristics			
Operating Temperature  Operating Temperature  -10 to +40 C  Interfaces  N-Type Female, SMA Female, USB and DC Input  FCC 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	External Dimensions	L220 x W100 x H62 mm		
N-Type Female, SMA Female, USB and DC Input  FCC Certifications  CE (EMC; EN55011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-1) ROHS	Weight			
FCC Certifications CE (EMC; EN55011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-1; ROHS	Operating Temperature	-10 to +40 C		
FCC Certifications CE (EMC; EN55011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-1; ROHS	Interfaces	N-Type Female, SMA Female, USB and DC Input		
Standard Package Transmitter, AC/DC Adapter, Hard Carrying Case, Stylus Pen and User Manual	Certifications	CE (EMC; EN55011, EN 61000-3-2, EN 61000-3-3, EN 61326-1 and EN 61000-6-1. LVD; EN 61010-1)		
Transmitter from a contraint contrai	Standard Package	Transmitter, AC/DC Adapter, Ha	ard Carrying Case, Stylus Pen and User Manual	

<sup>\*</sup>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**

WTX-610 ILLUMINATOR
iL-WB
iL-B1
iL-B2
iL-B3
iL-B4
iL-P22
iL-P2
iL-P3
iL-P4
iL-LTE-FDD5
iL-LTE-FDD5-3
iL-LTE-FDD5-4
iL-UMTS
iL-Bat

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



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