

ECSig 4 Port Test Transmitter

600 MHz to 4.2 GHz
0 to +15 dBm

ECSig is an advanced, portable, cloud-enabled test transmitter engineered by ECSite. It boasts an extended run time, delivers up to +15 dBm power output across frequencies up to 4 GHz, and offers virtual instrument control via a Bluetooth® App or directly through ECSite's Cloud-Based Test & Measurement Platform.

Housed in a rugged device no larger than a cell phone, ECSig is perfectly suited to meet all field testing requirements, including DAS uplink/downlink CW testing and coverage testing across all Sub-6 4G and 5G bands.



Features

- 14+ Hours at full power from a single 20,000 mAh battery pack
- 4 Independent RF Outputs
- 0 to 15 dBm Power Output in 1 dB steps
- Fully Controllable via USB & Bluetooth
- Profile Save/Recall feature
- Remote control capability

Specification:

Model #	ESIG-4200
RF Ports	(4) SMA Female Frequency and RF Output power are independent for each port
Frequency Range	600 to 4200 MHz
Frequency Step	100 kHz
Internal Frequency Accuracy	+/- 1PPM Aging 1PPM/Year max. TXCO frequency adjust by potentiometer for calibration
Output Power Capability	0 to +20 dBm [0 to +15 dBm fully spec. Compliant]
Output Power Steps	+/- 0.1 dB
Output Power Accuracy	+/- 0.2 dB
Spurious Outputs – Non-Harmonic	< -65 dBc
Spurious Outputs - Harmonic	< -40 dBc
External Reference Input Port	SMA Female
External Reference Input	10 MHz, 3 dBm min. Phase noise is a function of the reference phase noise
User Interface	Mobile App or USB to PC LED indicators for active channels LED indicators for power, BLE, external reference Push button for RF On/Off
Mobile Apps	Android & iOS Set: Frequency, RF Power, Active Channels, RF On/Off Save & Recall States
Data Port Type	USB C
Data Port Function	Local tethered monitor & control with terminal Baud Rate 115,200
Power Input	USB C
Port Power Input Port	5V 1.4A maximum with (4) ports active
Recommended Battery	Mophie Power Station 20,000 mAh
Operating Time	15 hours min. with recommended battery (4) ports active 60 hours min. with recommended battery (2) ports active
Operating Temperature	-10 to +40 deg C
Dimensions	5 x 4 x 0.5 in maximum including connectors
Weight	6 oz. maximum

Bands	Frequency Range
71	617 MHz to 698 MHz
12, 13, 14, 17, 26, 28, 29, 44, 67, 68, 85, n83	698 MHz to 803 MHz
5, 18, 19, 20, 26, 27, n82, n89	791 MHz to 894 MHz
8, 11, 21, 32, 45, 50, 51, 74, 75, 76, n81, n91, n92, n93, n94	832 MHz to 1518 MHz
24	1525 MHz to 1661 MHz
1,2,3,4,9, 10, 23, 25, 33, 34, 35, 36, 37, 39, 65, 66, 70, n80, n84, n86, n95	1695 MHz to 2200 MHz
7, 30, 38, 40, 41, 53, 69, n90	2300 MHz to 2690 MHz
22, 42, 43, 48, 49, 52, n77, n78	3300 MHz to 4200 MHz

Ordering information:

ECTX-2-4200, ECTX-4-4200 : 2 port and 4 port versions.
ECTX-P-4200-KIT: CW Test kit with Antennas, QMA Adapters and attenuators in a Pelican case
ECTX-8-4200-KIT: 8 outputs, 2x ECTX-4 with combiner, -10 to +5 dBm


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