

Specifications

Patents: The A20-Nexus is protected by US patents US10678294B2, US20190166523A1, International patent WO2018022209A1, and several patents pending.

${\sf RF}$

Tuning

- 470 to 1525 MHz (1055 MHz switching bandwidth)
- 25 kHz steps
- SpectraBand Technology for maximum rejection of out-of-band signals
- Available frequencies depend on country of operation

Modulation

- Proprietary, 100% digital RF modulation
- Standard or Long Range, selectable per channel

Spurious Rejection

>100 dB typical

Cascade output

- 50 ohm
- o 3.5 dB Insertion Loss from front BNC through rear BNC: It is recommended to use an external powered antenna to overcome the 3 dB splitting loss in the Nexus so that the receivers maintain excellent range.
- Wideband power split, pre-LNA

RF Bias output

- 12V, 200 mA each BNC
- Smart antenna support, Wisycom-compatible

Audio

Latency

- Standard modulation = 2 ms, analog or digital outputs
- Long Range modulation = 3.9 ms, analog or digital outputs Audio Frequency Response

10 Hz-20 kHz, +/- 1 dB relative to 1 kHz

 Dynamic Range > 130 dB with A20-Mini as transmitter

Output Level

- Line-level: +20 dBu for 0 dBFS Mic-level: -20 dBu for 0 dBFS
- Audio Output Sample Rate

44.1, 48, or 96 kHz Digital Audio Output

AES3 balanced connection, 110 ohm output impedance

Dante, 44.1 or 48 kHz sample rate

□ Network

Audio-Over-IP

16 input/output channels

Dante Audio-Over-IP

Web-based control and monitoring of all Nexus settings

Connections 2x RJ45 ports: For Dante and/or Control. Port 1 supports powering from

PoE+

Control

- 1x SFP: For Dante and/or Control. Compatible with Small Form-factor Pluggable (SFP) network transceivers
- **Powering**

Sources DC Input: dual, redundant (highest voltage takes precedence)

PoE+: 802.3at, 30W needed (standard 15W PoE 802.3af will not work)

- 8-Series (through unit-to-unit connector when docked) AC mains adapter (sold separately)
- Levels DC input, 10 to 18V in, 3A minimum at 6.5 VDC
 - 11 W idle, default configuration Extra power passed through for USB power, active antenna power, and DC
 - transmitters, and USB hubs

USB-A: 5V, 500 mA output; supports keyboards, thumb drives, A20-Mini

Environmental

Operating Temperature Range

-10 °C to +55 °C

output power

Dimensions (H x W x D)

- 4.0 cm x 20.3 cm x 16.7 cm
- (1.6 in x 8.0 in 6.6 in) Weight
- 1.27 kg (unpackaged)
- 2.8 lbs (unpackaged)