



High Performance / Low Consumption All-In-One 5G Radio

The ECHO 401 is a small cell access point engineered with cutting-edge System on a Chip (SoC) technology and a versatile modular design. This advanced device offers flexible support for both 4G (in development) and 5G networks, accommodating both TDD and FDD modes.

The ECHO 401 small cell is equipped to handle a range of split options, ensuring tailored and efficient use of the spectrum. With its focus on maximizing spectrum efficiency, the ECHO 401 paves the way for seamless technology transitions and consistent network progression.

Key Features

- Flexible hardware modularity supporting various modes and bands in 5G, TDD/FDD configurations.
- Configurable software options for Split 0, 2, or 6.
- Supports a 5G NR Operating Bandwidth (OBW) of up to 200 MHz.
- Capable of 4T4R & 8T8R configurations in a space-saving design.
- Enhanced power efficiency using a low-consumption SoC and Digital Pre-Distortion (DPD) compensation.
- Offers a variety of timing solutions.



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PRODUCT SPECIFICATIONS

ECHO 401

Specifications	
BTS-ECHO-401 - 4x4 MIMO - 5Gbps - 5G All-In-One Small Cell Radio	
DATA RATE (MAX)	Download: 5.000 Gbps (Normal) Upload: 1.875 Gbps (Normal) Download: 5.000 Gbps (UBM)* Upload: 1.875 Gbps (UBM)*
USERS / TTI (MAX)	Download: 4 Upload: 4
USER CAPACITY (MAX)	64 RRC Connected / Active (Higher capacity for IoT)
BACKHAUL	1 x 10Gbps, Optical or Electrical
Physical Specifications	
DIMENSIONS (LxWxH)	10.4" x 10.4" x 2.8" (w/o Bracket) 265mm x 265mm x 280mm (w/o Bracket)
WEIGHT	Indoor: 5.5 lbs (2.5kg) (w/o Bracket) Outdoor: 8.8 lbs (4.0kg) (w/o Bracket)
ANTENNA	4x RF antennas, Integrated or External
POWER CONSUMPTION	< 50W
POWER SUPPLY	IEEE 802.3bt PoE Type 4
MOUNTING	Wall / Ceiling / Pole

5G RAN Specifications	
BANDWIDTH	5G TDD NR (200MHz Processing Bandwidth) n48: 10MHz / 20MHz / 40MHz / 100MHz (Per Channel) n77: 10MHz / 20MHz / 40MHz / 100MHz (Per Channel) <i>(Other bands and bandwidth in future releases)</i>
CARRIER AGGREGATION	10 + 10 MHz 20 + 20 MHz 40 + 40 MHz 100 + 100 MHz
SPLIT OPTION	Split Option 0 Split Option 2 Split Option 6
TRANSMISSION POWER	24 dBm per chain with DPD 27 dBm per chain (In Future Releases)
RX Sensitivity	~ -95 dBm
MIMO	2T2R
TIMING	GPS SyncE IEEE 1588 (Version 2.0) ECHO Sync (Network Based Sync In Future Releases)



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