

AW3925

DBSE Antenna

Diplexed Base Station Endpoint (DBSE) Antennas are a multiband MIMO platform that provides stable omni-directional gain in one attractive package. The nearly circular azimuth pattern and stable gain can overcome null zones and deliver a reliable communication link no matter the frequency and direction to the tower.



MULTIBAND
SUPPORT WITH
STABLE GAIN

OMNI PATTERN
WITH NO NULLS

COMPATIBLE
WITH LOW-BAND
AND CBRS 3.5GHZ
LTE/5G
NETWORKS

MAXIMUM GAIN
IN COMPACT
FORM FACTOR

APPLICATION

- Endpoint devices requiring stable and predictable gain patterns across multiple bands
- Mission-critical communication links using both public and private networks for redundancy
- Advanced metering infrastructure requiring 2x2 MIMO for improved signal strength

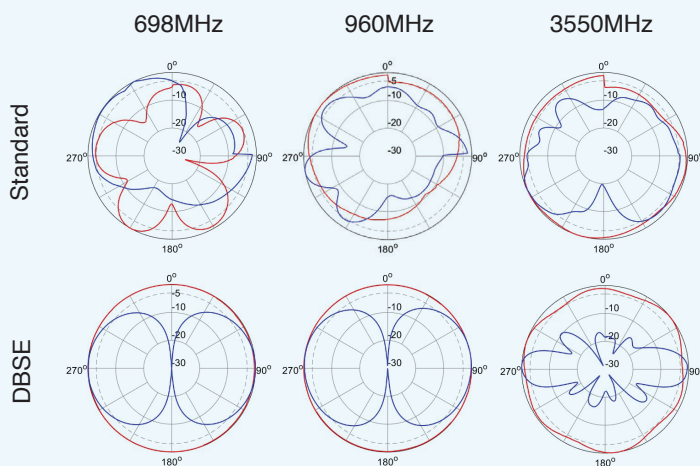
FEATURES AND BENEFITS

- Supports 698-960MHz with 2dBi gain and 3400-3800MHz with 6dBi gain
- Delivers stable pattern performance across both bands
- Provides 2x2 MIMO compatible with public and private LTE networks using the 700/800/900MHz and 3.5GHz frequency bands
- Minimum azimuth pattern ripple means the antenna requires no alignment

ADDITIONAL FEATURES

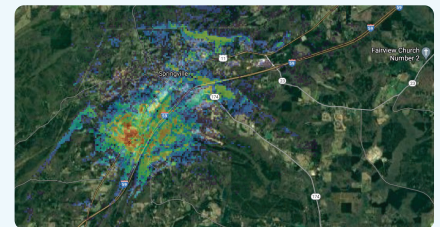
- Compact dimensions no bigger than existing pole-mounted utility equipment
- Works well in both NLOS and LOS applications

PATTERN PERFORMANCE

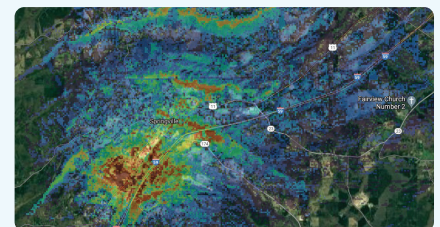


- Alpha Wireless is bringing its base station antenna technology to the other side of the link to solve budget challenges near the cell edge
- **Standard** end point antennas offers sub-optimal performance with non-ideal OMNI patterns. The antenna's radiation has large null zones that vary with frequency and the antenna must be realigned to achieve maximum link strength
- The new **DBSE** antenna is a 2x2 MIMO platform designed to support low-band and 3.5GHz CBRS with a reduced form factor that does not compromise RF performance
- The **DBSE** antenna's nearly circular azimuth pattern and stable gain can overcome null zones and deliver a reliable communication link no matter the frequency and direction to the tower

IMPROVED NETWORK RANGE



Standard



DBSE

- The Alpha Wireless **DBSE** antenna features high gain equally in all directions and at all frequencies which recovers lost signal strength and extends the cell range