

DB842H40E-SX



1-port small cell antenna, 806–896 MHz, 40° HPBW, fixed electrical tilt

- Excellent azimuth pattern shaping, 15–20 percent reduction in cell-to-cell overlap
- Superior front-to-back ratio
- Low profile, low wind load for ease of zoning approval
- Outstanding field record—thousands of units deployed worldwide

Electrical Specifications

Frequency Band, MHz	806–896
Gain, dBi	14.1
Beamwidth, Horizontal, degrees	40
Beamwidth, Vertical, degrees	30.0
Beam Tilt, degrees	0
USLS, typical, dB	15
Front-to-Back Ratio at 180°, dB	40
VSWR Return Loss, dB	1.5 14.0
PIM, 5th Order, 2 x 20 W, dBc	-150
Input Power per Port, maximum, watts	500
Polarization	Vertical
Impedance	50 ohm

General Specifications

Operating Frequency Band	806 – 896 MHz
Antenna Type	Small Cell
Band	Single band
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	1
RF Connector Quantity, low band	1
RF Connector Interface	7-16 DIN Female
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Brass
Radome Material	ABS, UV resistant
RF Connector Location	Rear
Wind Loading, maximum	476.0 N @ 100 mph 107.0 lbf @ 100 mph
Wind Speed, maximum	201 km/h 125 mph

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Dimensions

Length	610.0 mm 24.0 in
Width	623.0 mm 24.5 in
Depth	314.7 mm 12.4 in
Net Weight, without mounting kit	6.3 kg 13.9 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system



Included Products

DB380 — Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas. Includes 2 clamp sets and double nuts.

DB5083 — Downtilt Mounting Kit for 2.4"-4.5" (60 - 115 mm) OD round members. Includes a heavy-duty, galvanized steel downtilt mounting bracket assembly and associated hardware. This kit is compatible with the DB380 pipe mount kit for panel antennas that are equipped with two mounting brackets.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance