

TECHNICAL DATA SHEET

Description: 617-960/1710-2170/2300-2700/3400-3800/4900-7100MHz Ceiling mount

PART NUMBER: DASLTE500XXMIMO



Features:

- Multiple Input / Multiple Output (MIMO)
- 617 MHz thru 7100 MHz operation
- Industry Leading -155dBc PIM rating
- RoHS Compliant

Applications:

- In-building DAS Systems requiring low PIM performance.
- Band 71 devices (617 698 MHz)
- CBRS, Citizen's Broadband Radio Service devices (3.4 – 3.7 GHz)
- LTE LAA, License Assisted Access in upper ISM bands.
 Typically from 5.7 – 5.925 GHz
- Supports Dual Band Wi-Fi systems up to 7.1GHz

Issue: 1924

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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Series: DAS

ELECTRICAL SPECIFICATIONS

Antenna type (2) 1/4 Wave monopoles on ground plane

Frequency 617-960/1710-2170/2300-2700/3400-3800/4900-5925/5925-7100 MHz

Nominal Impedance 50 Ω

VSWR (617-960/1710-7100MHz) 1.8:1 Max

Isolation -17 Min

Average peak gain (617-960/1710-5925) 3/5 dBi

Average efficiency (617-960/1710-5925) 60 % Min

Radiation Pattern Omni

Average HPBW Vertical Plane (617-960/1710-5925) 92/45 °

Polarization Vertical for each radiator

Power withstanding 50 W

PIM at 2x20 watts -155 dBc

MECHANICAL SPECIFICATIONS

Width / height / Length 170.8 / 120 / 221.6 (6.73" / 4.72" / 8.73")

Weight 625 g (1.38 lbs)

Antenna Color / Plastic material White / UV Protected, UL94 V-0 rated

Connector type/Cable type See table

Cable length 500 mm

Fixing system Ceiling mount

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -40° to +85° C

Ingress Protection IP30
RoHS Compliant Yes





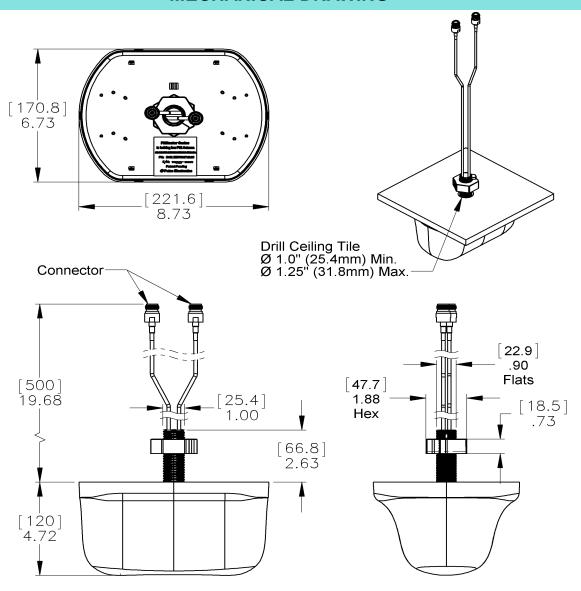
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MECHANICAL DRAWING



P.N	Cable	Cable Length	Connector
DASLTE500NFMIMO	RG402 (1/4" low loss, low PIM cable)	500 +25/-60mm	N-Female (x2)
DASLTE5004310MIMO			4.3-10 (x2)

All dimensions are in mm / inches

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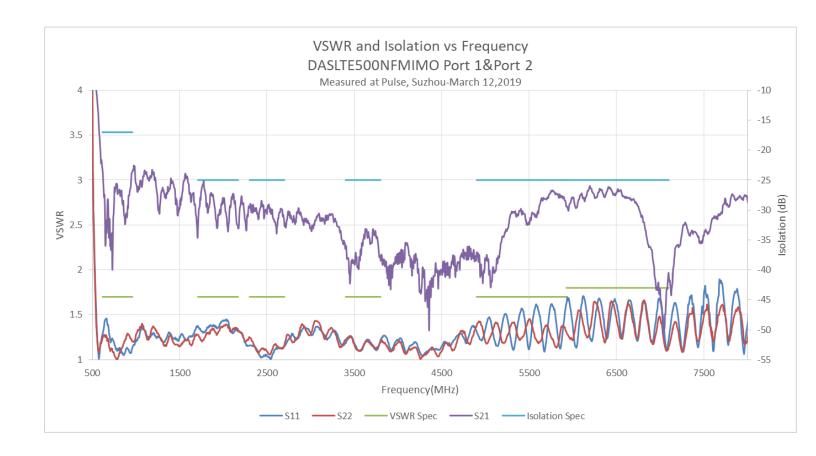
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CHARTS







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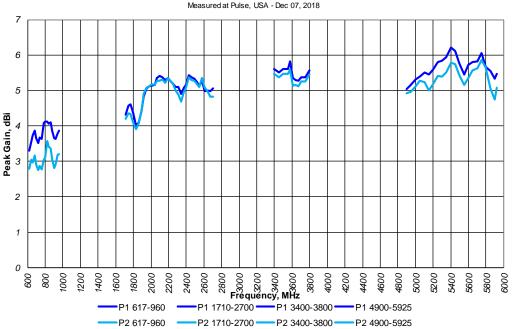
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Peak Gain vs Frequency DASLTE500NFMIMO Port 1 & 2



Efficiency vs Frequency DASLTE500NFMIMO Port 1 & 2

Measured at Pulse, USA - Dec 07, 2018 100 90 80 70 60 Efficiency 50 40 30 20 10 0 0008 P1 617-960 P1 1710-2700 P1 3400-3800 P1 4900-5925 P2 617-960 P2 1710-2700 • P2 3400-3800

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ROHS



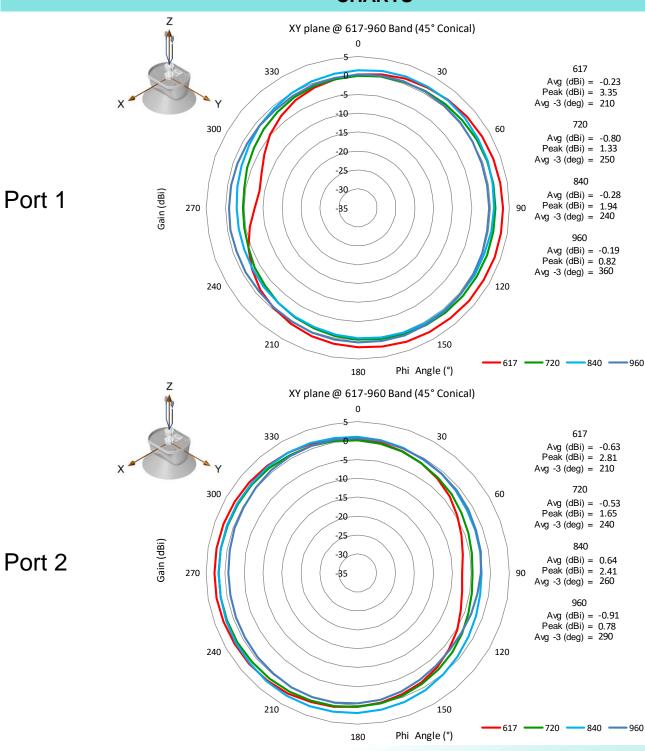
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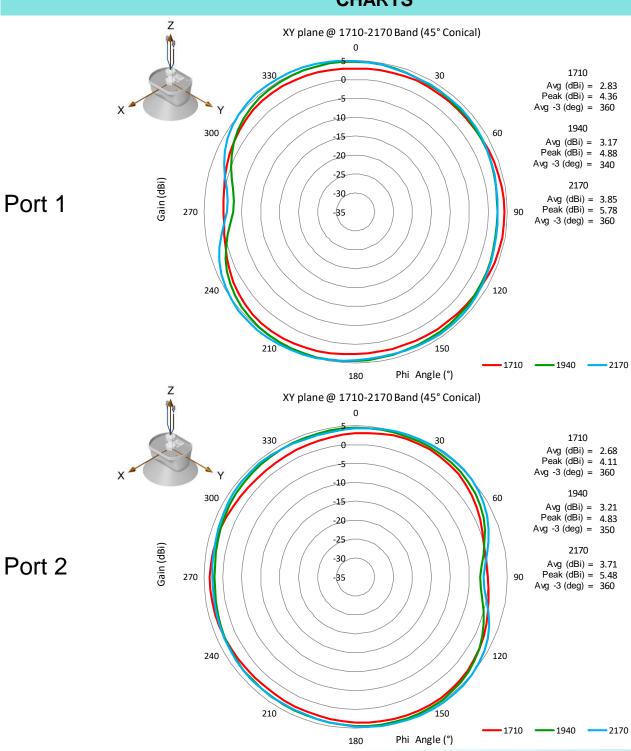


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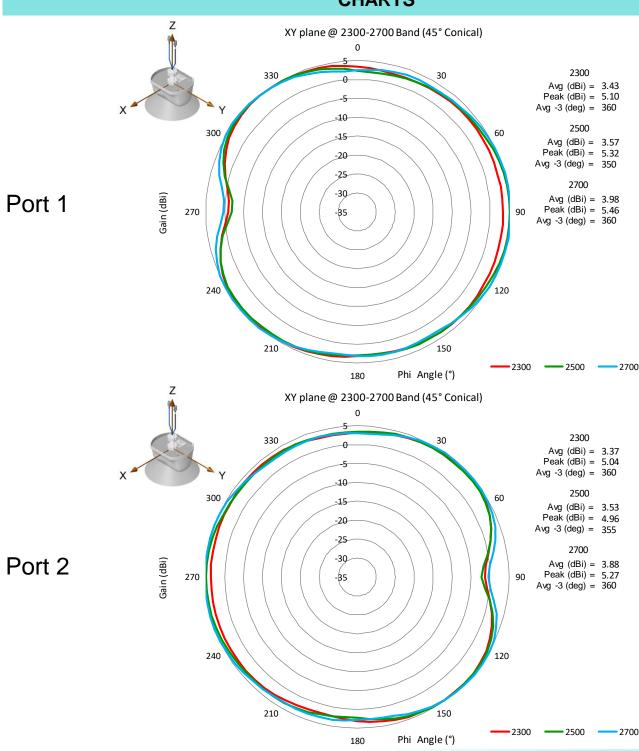


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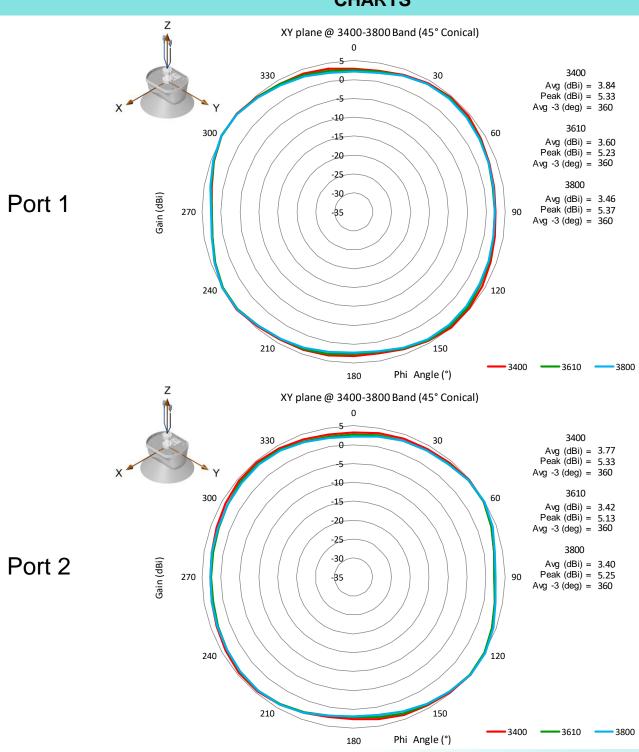
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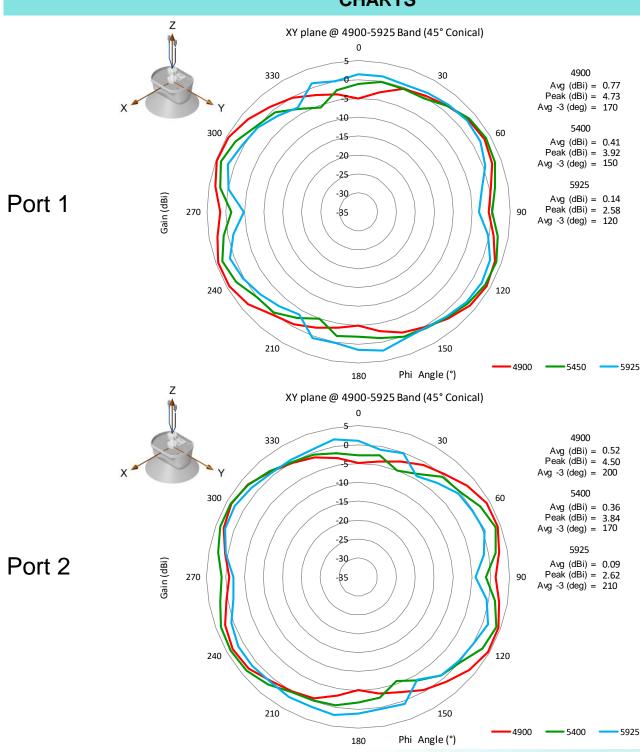
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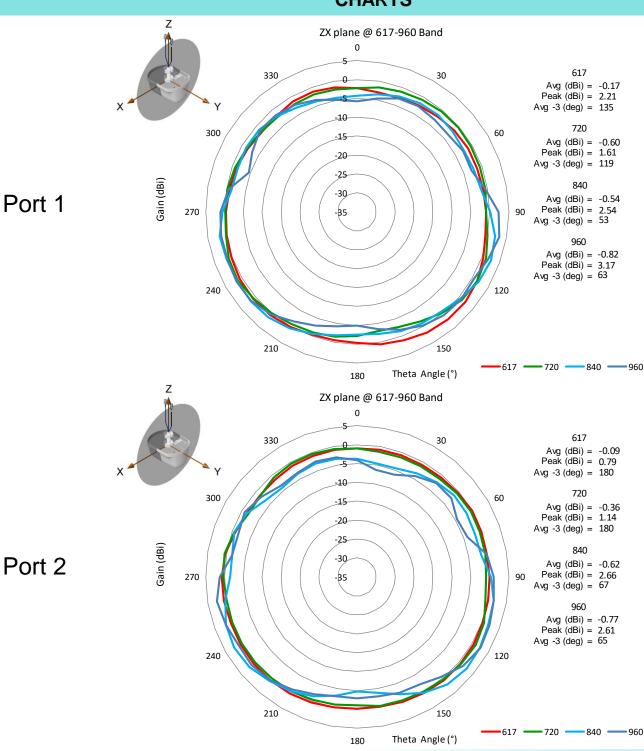
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CHARTS ZX plane @ 1710-2170 Band 1710 Avg (dBi) = -1.36Peak (dBi) = 3.54 Avg -3 (deg) = 58 300 Avg (dBi) = -0.85Peak (dBi) = 4.60 Avg - 3 (deg) = 46Gain (dBi) 2170 Port 1 Avg (dBi) = -0.73Peak (dBi) = 4.67 270 Avg -3 (deg) = 44210 150 1710 **—**1940 **—**2170 Theta Angle (°) 180 ZX plane @ 1710-2170 Band 1710 330 Avg (dBi) = -1.45Peak (dBi) = 3.26 Avg -3 (deg) = 62 1940 300 Avg (dBi) = -0.74Peak (dBi) = 4.89 Avg -3 (deg) = 45 Gain (dBi) 2170 -30 Port 2 Avg (dBi) = -0.60Peak (dBi) = 5.02270 Avg -3 (deg) = 43 210 150 1710 **—** 1940 **-**Theta Angle (°) 180

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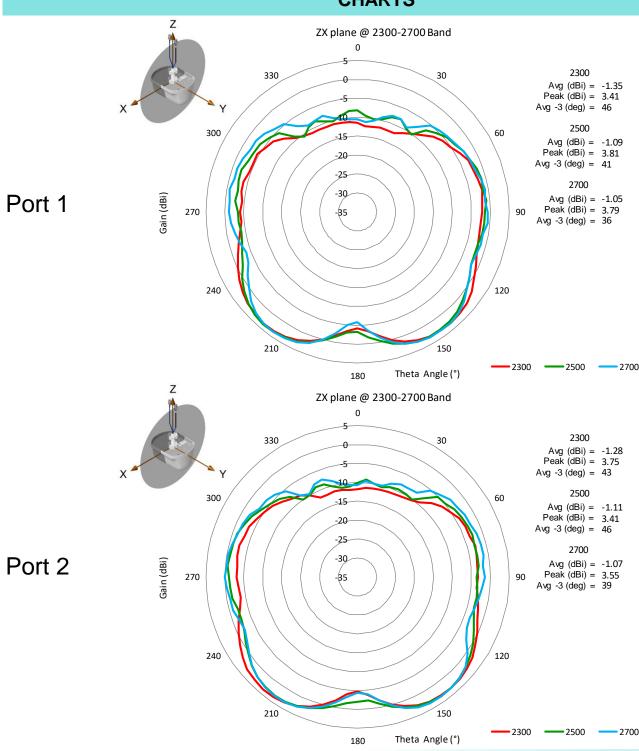
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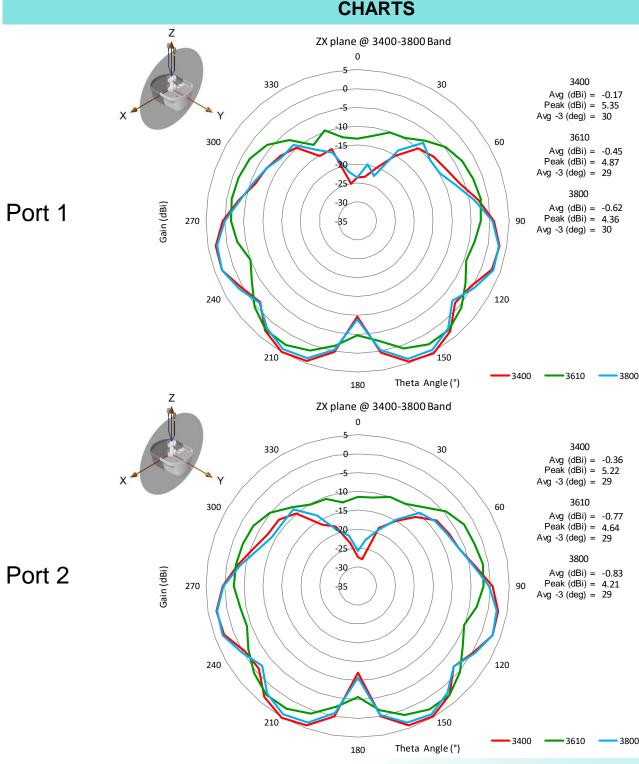


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CHARTS ZX plane @ 4900-5925 Band 4900 330 Avg (dBi) = 0.03Peak (dBi) = 4.52Avg -3 (deg) = 515400 Avg (dBi) = 0.38Peak (dBi) = 5.39 Avg -3 (deg) = 475925 Gain (dBi) Port 1 Avg (dBi) = 0.42Peak (dBi) = 5.33270 Avg -3 (deg) = 44 210 5925 4900 5400 Theta Angle (°) 180 ZX plane @ 4900-5925 Band 0 4900 330 Avg (dBi) = -0.11Peak (dBi) = 4.24Avg - 3 (deg) = 555400 Avg (dBi) = 0.04Peak (dBi) = 5.09Avg -3 (deg) = 42 5925 Port 2 Gain (dBi) Avg (dBi) = 0.07Peak (dBi) = 4.75 270 Avg -3 (deg) = 46

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210

Theta Angle (°)

4900

5400

5925



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PACKAGING

1 antenna packed in a plastic bag

1 label on each plastic with part number, description, date code.

Total: 12pcs antenna per carton box

Carton Box Size: 575x485x480 mm