



# JET DUO

## 1.5 Gbps PtMP dual-band 3.5 & 5 GHz solution

Providing unmatched deployment flexibility and capacity with no additional tower related costs

JET DUO is a 3.5 GHz and 5 GHz base station in a single unit that encapsulates independent beamforming antennas per each individual band. Delivering up to 1.5 Gbps, JET DUO leverages RADWIN's exclusive Bi-Beam™ air interface.

JET DUO is an ideal solution for service providers operating in the 3.5 GHz licensed band, providing them with the added flexibility to also use the 5 GHz band to uncap data speeds and choose the most suitable frequency band for a wide range of applications.

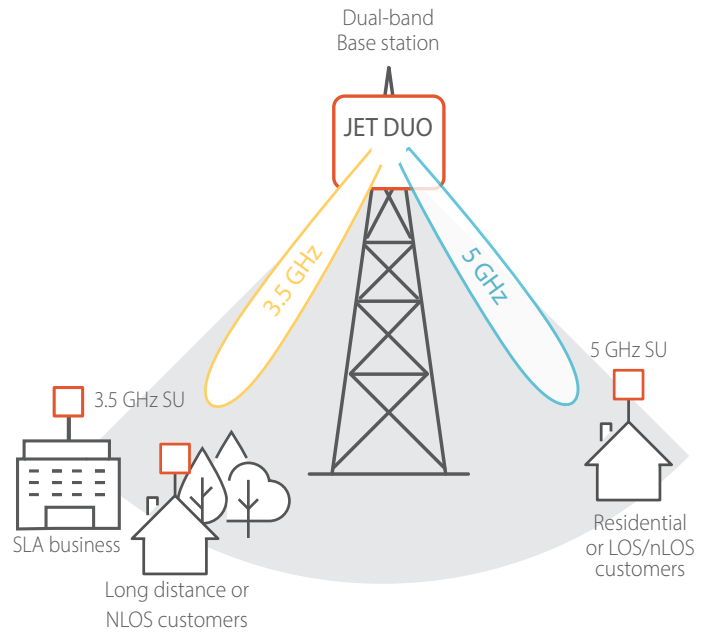
# JET DUO Benefits

## Deployment flexibility

Choose the most suitable band to cost-effectively address deployment requirements:

Deploy the 3.5 GHz band for SLA business customers and 5GHz for residential.

Alternatively, use the 5GHz for customers with pure or obstructed Line-of-Sight, while vacating the 3.5GHz band for Non-Line-of-Sight scenarios or long distance customers.



## JET DUO Highlights

- » Dual-band platform for 3.5 GHz and 4.9-6.0 GHz
- » 2 x 750Mbps
- » Up to QAM 256, 2 x 80MHz
- » Exceptional interference immunity:
  - > 2<sup>nd</sup> Gen. beamforming antenna with exceptionally small side lobes
  - > Built-in filters to mitigate LTE signals
- » Support 64 customers, upgradeable to 2 x 64<sup>(1)</sup>
- » Interfaces: Fiber (SFP) and GbE
- » Backward compatible with SU / HSU installed base
- » Network synchronization via built-in GPS



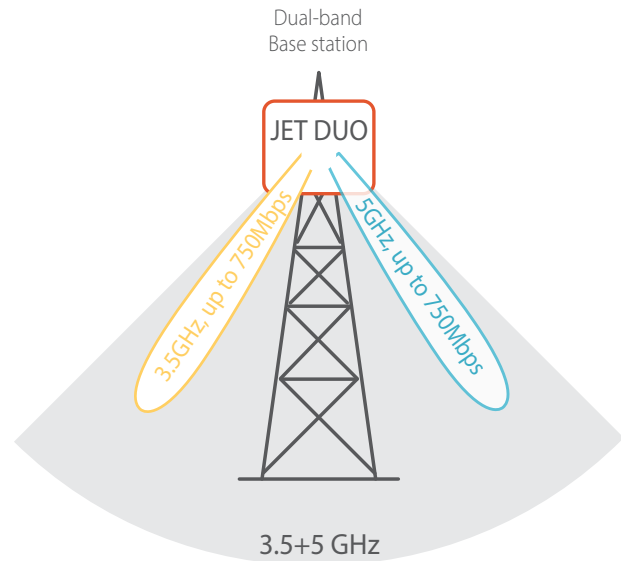
(1) Future feature, software upgradeable

# Increase access capacity with no additional installation and maintenance costs

By providing both the 3.5 and 5 GHz bands in a single compact unit, JET DUO eliminates costs, associated with deploying multiple single-band base stations.

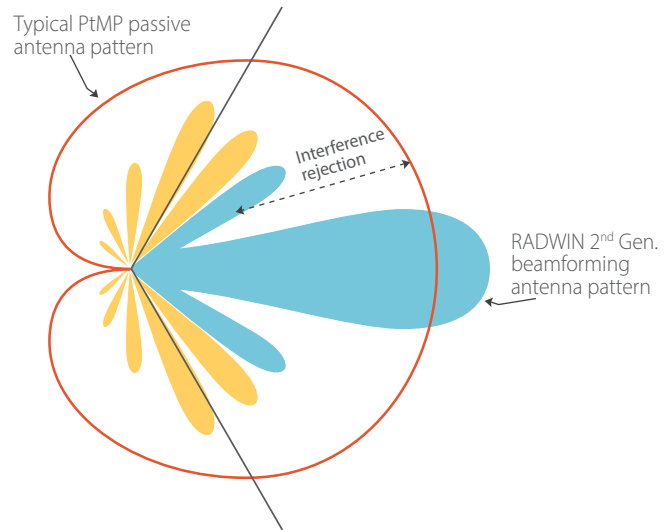
Deployment of a single dual-band base station outdoor radio reduces:

- » Tower space and rental costs
- » Cabling (single fiber cable)
- » Traffic aggregator data ports



## Superior interference immunity

RADWIN's 2<sup>nd</sup> generation beamforming 5 GHz antenna significantly improves interference immunity via radically smaller antenna side lobes.



JET DUO beamforming antenna pattern vs. a typical PtMP antenna



## Product Specifications:

<b>Architecture</b>	Outdoor unit with a smart beamforming integrated antenna
<b>Max net aggregate capacity</b>	2 x 750Mbps
<b>Frequency bands<sup>2</sup></b>	3.4-3.8GHz or 4.9-6.0 GHz (concurrent operation of both bands)

### Radio General

Subscriber Units supported	Up to 64 (2 x 64 <sup>1</sup> )
Range	Up to 40 km / 25 miles
Radio access scheme	OFDM, Auto MIMO 2x2 or Diversity per SU
Modulation	BPSK/QPSK/16QAM/64QAM/256QAM
SLA management	CIR, MIR, Best Effort
End to End Latency	Typical: 3.5msec
Duplex Technology	TDD, Configurable Uplink / Downlink ratio
TDD Synchronization	Inter & Intra site synchronization through built-in GPS
Encryption	AES 128

### 3.5GHz Radio

Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz
Max Tx Power	28 dBm per port
Antenna Gain	16 dBi

### 5GHz Radio

Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz
DFS	Supported (ETSI)
Max Tx Power	25dBm per port (subject to the country regulation)
Antenna Gain	19 dBi @ ETSI & FCC, 20 dBi @UNI

### Interfaces

PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT
Data Interfaces	1000BaseT (over PoE) or SFP

### Networking

Sub convergence layer	Layer 2, Bridging learning of 5K MAC addresses
QoS	Packet classification to 4 priority queues according to 802.1P or DiffServ
VLAN Support	802.1Q, QinQ, 4094 VLANs

### Management

Protocols	SNMPv1, SNMPv3, Telnet, HTTP, IPv4 & IPv6, RADIUS for AAA Server
NMS Applications	RADWIN NMS (WINManage) or integration with 3rd party NMS system via standard MIBs

### Power

Power Feeding	Provided over ODU-PoE cable
Power Consumption	<55W

### Mechanical

ODU Dimensions	35.6(w) x 37.1(h) x 9.5(d) cm
ODU Weight	4.5Kg / 9.9 lbs

### Environmental

Operating Temperatures	-35°C to 60°C / -31°F to 140°F
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)
Safety	US/CAN (cTUVus), CE/IEC
EMC	FCC <sup>3</sup> , ETSI, CAN/CSA-CEI/IEC

**Note 1:** Future feature, software upgradeable

**Note 2:** FCC bands: 3.65 , 5.1, 5.8 GHz

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