

# ZoneFlex P300



## FREQUENTLY ASKED QUESTIONS

**Q. Can DC power directly be used without the DC POE Injector?**

A. P300 only supports PoE and does not support DC power.

**Q. What is Point to Multi-Point Line-of-Sight?**

A. Max link distance between P-P is 12km with internal antennas.

**Q. How many non-root bridge devices can the P300 support?**

A. Up to 10 non-root bridges are supported

**Q. What is the horizontal and vertical beamwidth of internal antenna?**

A. 30x30 degrees

**Q. P300 only comes in 5GHz?**

A. P300 only operates in 5GHz band

**Q. Is there any license fee per year or something for the radio**

A. There is no license fee for the radio

**Q. What is Multipoint max client support?**

A. P300 is purely a bridge device and does not support clients

**Q. For P to MP, is there timeslot or sync mechanism between nodes to ensure guaranteed throughput?**

A. P300 does not support TDMA

**Q. Beside price what is the competitive edge of this product over market competitors of similar products by other vendors?**

A. Best in class long range performance, patented Ruckus RF techniques such as PD-MRC, dedicated radar pre-scan which does not impact WLAN performance, support multiple non root bridges and ability to choose external antennas for additional range to name a few.

# ZoneFlex P300

## Q. Does P300 come with POE injector?

- A. POE injector is optional accessory; refer to datasheet for ordering information.  
<http://www.ruckuswireless.com/products/access-points/zone-flex-outdoor/zoneflex-p300>

## Q. Will there be a trade-up program for outdoor APs?

- A. Not at this time, subject to change

## Q. Are the external antennas used on P300 the same ones used with 7731?

- A. Yes

## Q. Is the 8 km range with integrated antenna or external antenna?

- A. Internal antennas

## Q. Can P300 be monitored via ZD/SZ?

- A. Currently P300 can be managed standalone or Flex Master. There are plans to support SZ in 2016, however this is subject to change.

## Q. Will P300 support lower 5GHz band? 5.1/5.2?

- A. Yes, for US.

## Q. If deployment already has P2P pair of 7731 and want to extend to P2MP, can P300 be used as third unit?

- A. P300 cannot be used with 7731 because the connectivity code is different

## Q. How does the P300 handle interference between units and other AP's in the vicinity?

- A. P300 benefits from Ruckus RF technologies such as ChannelFly and narrow beamwidth antennas that help to mitigate interference. Refer to user guide for recommended installation techniques.  
<https://support.ruckuswireless.com/software?filter=80#documents>

## Q. What is the effective range on P300 point to multi point bridges and do they have full VLAN support?

- A. This depends on the throughput requirement. Links can be

made out to 10+ km for some rates. P300 is a tunneling device, which is capable of passing through VLAN tagging, but does not support VLANs itself.

## Q. Is there a VAR NFR P300 SKU?

- A. NFR kits will be managed through channel programs

## Q. Does the P300 in P to MP configuration reserve bandwidth in a fix value?

- A. There are no capacity limits per link

## Q. How does P300 handle radar detection/DFS?

- A. P300 has an integrated radio that is dedicated for scanning radar events on affected channels. This Radar Avoidance Pre Scan (RAPS) feature, allows the P300 to check DFS channels for radar events before moving to them and without impact to WLAN performance.

## Q. At what distances do the speed start to drop?

- A. Refer to RvR plot on VAR briefing slides:  
<https://partners.ruckuswireless.com/>

## Q. What speeds can you reach with an over 7-mile point-to-point environment?

- A. Outdoor range testing is highly subjective to the environment. Refer to VAR briefing slides on partner portal for reference:  
<https://partners.ruckuswireless.com/>

## Q. Is there an antenna add-on to allow the P300 to have omnidirectional coverage or do you use multiple units?

- A. Ruckus offers omnidirectional 5GHz antennas that could be used, however this is not the recommended use case.

## Q. Does P300 support 3 and 6 GHz?

- A. No, only 5GHz.

## Q. Will the P300 replace the 7731?

- A. There are no plans to EOL 7731 at this time

## Q. Will we have 3x3:3 outdoor AP?

- A. Currently there is 7782, 3x3 11n outdoor AP

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**Q. How many subscribers can be connected to this AP?**

A. P300 is a bridge product. It can connect with other P300s but not client devices.

**Q. Does P300 support PoE 802.1 af or at?**

A. P300 supports 802.3af

**Q. What external antenna connectors does it use? RP-SMA?**

A. N-type connectors

**Q. Does P300 run Beamflex?**

A. No. P300 uses internal directional antenna with 2 feeds

**Q. How does the P300 handle interference when using 80Mhz channels?**

A. Channel fly and dynamic channel change enabling fall back from 80 MHz down to 40 or 20Mhz depending on the interference scenario.

**Q. Can two different Antennas (120 and 90 Degree Antennas) be used simultaneously at the base station side?**

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**Q. For carrier deploying Small Cell can the P300 efficiently support 64 byte small packets for VoLTE and 3G/3G+ voice support?**

A. Yes, P300 supports 64 byte packets for the applications mentioned above.

**Q. Can the T301 or 7762 connect to P300?**

A. P300 can connect to T301 or 7762 with PoE injectors or through switch

**Q. How many external antennas can I connect? For P to MP, do they all have to be within 30 degrees?**

A. P300 supports two external antennas. There is no restriction of 30 degrees for external antennas.

**Q. How much separation is required if multiple P300s are mounted on one site or tower?**

A. Ruckus recommends one-meter separation between two P300 mounted on the same pole, refer to user guide for more details.  
<https://support.ruckuswireless.com/software?filter=80#documents>

**Q. Is it possible to connect a PoE switch to a P300 and branch off that?**

A. Yes as long as PoE switch meets 802.3af?

**Q. What advantage does PD-MRC bring for bridges?**

A. There are 2 transmit/receive radio chains. Chain 0 is wired to vertically polarized antenna and chain 1 is wired to a horizontally polarized antenna. There will be better RX/TX gain at both ends for point-to-point links.

**Q. If external 3rd party antennas are installed is PD-MRC disabled?**

A. If external antennas are dual polarized, then PD-MRC will work.

**Q. Which Code base will P300 run?**

A. 100.1.x, refer to release notes for more details.  
<https://support.ruckuswireless.com/software?filter=80#documents>

