



The RapidLink RL-2125-45-AF is a unique dual radio indoor solution that supports both 2.4 and 5 GHz bands concurrently. The RL-2125 can be configured as dual band concurrent 802.11ac + 802.11b/g/n Access Point or a single band 802.11ac/a or 802.11b/g/n Access Point. MESH configurations supported as well.

The RL-2125-45-AF comes with integrated 4dBi 2.4 GHz and 5dBi 5 GHz 2x2 MIMO pyramidal omni smart antenna. The 2.4 GHz radio can support 300 Mbps and the 5 GHz band will reach 867 Mbps at full modulation. The RL-2125 series is a very cost effective, high performance AP that can be wall or ceiling mounted. Includes mounting bracket and 802.3af POE.

### Key Features

- 2.4GHz and 5GHz concurrent radios
- 2.4GHz 26dBm and 5GHz 24dBm aggregate power
- Data rates of up to 867Mbps in 802.11ac 80 MHz channel
- Antenna Alignment Site Survey - LEDs/Buzzer
- Enhanced sensitivity performance
- Built-in 4dBi 2.4GHz pyramidal omni smart antenna
- Built-in 5dBi 5GHz pyramidal omni smart antenna
- Support Wall-mounting or Ceiling-mounting
- IEEE 802.3af/at Power-over-Ethernet
- Web interface or unit can be managed with available controller. Unit supports SNMP management as well.

### Software Configurations

**Dual-band concurrent operation**

**AP with MESH**

**CPE**

**Dual Band concurrent 802.11ac + 802.11b/g/n Access Point**

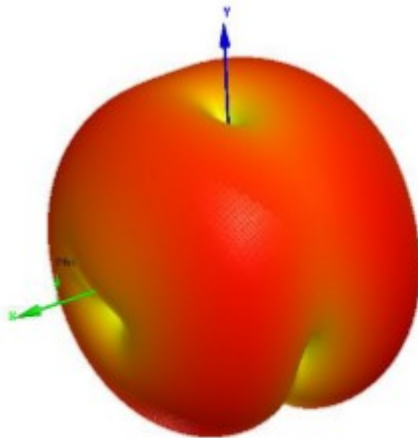
**Single Band 802.11ac/a or 802.11b/g/n Access Point**

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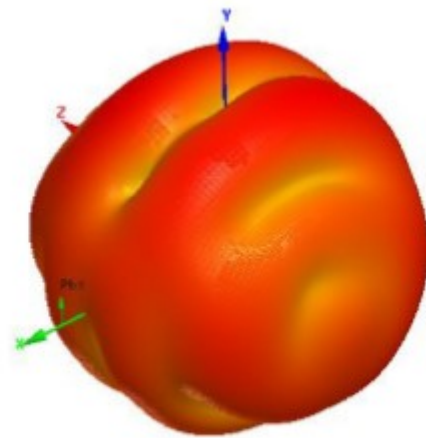
### Specifications

<b>Model</b>	RL-2125-45-AF
<b>Antennas</b>	Built-in 4dBi 2.4GHz pyramidal omni smart antenna Built-in 5dBi 5GHz pyramidal omni smart antenna
<b>Power Consumption</b>	10.5 watts max
<b>Input Power</b>	Included IEEE 802.3af POE or passive POE (optional)
<b>Reset Button</b>	Yes
<b>LED's</b>	Indicators: Power LED, LAN Activity, 4x Signal Indicator
<b>Interface</b>	2x Gigabit Port (Auto MDI-X) 10/100/1000 supported
<b>Certification</b>	FCC and CE Certified, RoHS Compliance
<b>Radio Power</b>	2.4GHz 26dBm and 5GHz 24dBm aggregate power
<b>WiFi Standards</b>	IEEE 802.11ac/a/b/g/n compliant
<b>Management</b>	Optional Controller, Web Interface, SNMP
<b>Operating System</b>	RapidusWRT based OS included
<b>Dimension (H x W x D)</b>	161.5 x 161.5 x 80 m
<b>Temperature</b>	Operating: -20°C to 70°C, Storage: -40°C to 90°

### Antenna Pattern



2.4GHz 4dBi



5GHz 5dBi

### RF Parameters

	Data Rate	TX Power (per chain)	TX Power (2 chains)	Tolerance
2.4GHz 802.11n HT20	MCS 0	21dBm	24dBm	±2dB
	MCS 1	21dBm	24dBm	±2dB
	MCS 2	21dBm	24dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB
	MCS 6	19dBm	21dBm	±2dB
2.4GHz 802.11n HT40	MCS 0	20dBm	23dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB
	MCS 3	19dBm	22dBm	±2dB
	MCS 4	19dBm	22dBm	±2dB
	MCS 5	19dBm	22dBm	±2dB
	MCS 6	18dBm	21dBm	±2dB
5GHz 802.11a	6Mbps	20dBm	23dBm	±2dB
	9Mbps	20dBm	23dBm	±2dB
	12Mbps	20dBm	23dBm	±2dB
	18Mbps	20dBm	23dBm	±2dB
	24Mbps	20dBm	23dBm	±2dB
	36Mbps	18dBm	21dBm	±2dB
	48Mbps	16dBm	19dBm	±2dB
	54Mbps	15dBm	18dBm	±2dB
5GHz 802.11n/ac VHT20	MCS 0	19dBm	22dBm	±2dB
	MCS 1	19dBm	22dBm	±2dB
	MCS 2	19dBm	22dBm	±2dB
	MCS 3	18dBm	21dBm	±2dB
	MCS 4	18dBm	21dBm	±2dB
	MCS 5	17dBm	20dBm	±2dB
	MCS 6	16dBm	19dBm	±2dB
	MCS 7	14dBm	17dBm	±2dB
5GHz 802.11n/ac VHT40	MCS 0	18dBm	21dBm	±2dB
	MCS 1	18dBm	21dBm	±2dB
	MCS 2	18dBm	21dBm	±2dB
	MCS 3	17dBm	20dBm	±2dB
	MCS 4	17dBm	20dBm	±2dB
	MCS 5	16dBm	19dBm	±2dB
	MCS 6	15dBm	18dBm	±2dB
	MCS 7	14dBm	17dBm	±2dB
	MCS 8	13dBm	16dBm	±2dB
5GHz 802.11ac VHT80	MCS 0	18dBm	21dBm	±2dB
	MCS 1	18dBm	21dBm	±2dB
	MCS 2	18dBm	21dBm	±2dB
	MCS 3	17dBm	20dBm	±2dB
	MCS 4	17dBm	20dBm	±2dB
	MCS 5	16dBm	19dBm	±2dB
	MCS 6	15dBm	18dBm	±2dB
	MCS 7	14dBm	17dBm	±2dB
	MCS 8	13dBm	16dBm	±2dB

	Data Rate	RFK Specifications Sensitivity	Tolerance
2.4GHz 802.11n HT20	MCS 0	-94dBm	±2dB
	MCS 1	-92dBm	±2dB
	MCS 2	-89dBm	±2dB
	MCS 3	-84dBm	±2dB
	MCS 4	-83dBm	±2dB
	MCS 5	-80dBm	±2dB
	MCS 6	-79dBm	±2dB
2.4GHz 802.11n HT40	MCS 0	-91dBm	±2dB
	MCS 1	-91dBm	±2dB
	MCS 2	-89dBm	±2dB
	MCS 3	-84dBm	±2dB
	MCS 4	-82dBm	±2dB
	MCS 5	-80dBm	±2dB
	MCS 6	-79dBm	±2dB
5GHz 802.11a	6Mbps	-94dBm	±2dB
	9Mbps	-94dBm	±2dB
	12Mbps	-92dBm	±2dB
	18Mbps	-91dBm	±2dB
	24Mbps	-90dBm	±2dB
	36Mbps	-86dBm	±2dB
	48Mbps	-83dBm	±2dB
	54Mbps	-80dBm	±2dB
5GHz 802.11n/ac VHT20	MCS 0	-93dBm	±2dB
	MCS 1	-90dBm	±2dB
	MCS 2	-87dBm	±2dB
	MCS 3	-83dBm	±2dB
	MCS 4	-80dBm	±2dB
	MCS 5	-77dBm	±2dB
	MCS 6	-74dBm	±2dB
	MCS 7	-73dBm	±2dB
5GHz 802.11n/ac VHT40	MCS 0	-90dBm	±2dB
	MCS 1	-88dBm	±2dB
	MCS 2	-85dBm	±2dB
	MCS 3	-82dBm	±2dB
	MCS 4	-80dBm	±2dB
	MCS 5	-75dBm	±2dB
	MCS 6	-73dBm	±2dB
	MCS 7	-73dBm	±2dB
	MCS 8	-70dBm	±2dB
5GHz 802.11ac VHT80	MCS 0	-89dBm	±2dB
	MCS 1	-87dBm	±2dB
	MCS 2	-85dBm	±2dB
	MCS 3	-83dBm	±2dB
	MCS 4	-80dBm	±2dB
	MCS 5	-78dBm	±2dB
	MCS 6	-75dBm	±2dB
	MCS 7	-72dBm	±2dB
	MCS 8	-70dBm	±2dB