



The RapidLink 5525 is a dual radio solution that supports both 2.4 and 5 GHz bands concurrently. The RL-5525 can be configured as dual AP's or one AP and one Backhaul. MESH topologies are supported as well.

The RL-5525-8-17 comes with integrated 8 dBi omni 2.4 GHz 2x2 MIMO antennas and a 17 dBi 2x2 MIMO 5 GHz directional antenna. The 2.4 GHz radio can support 300 Mbps and the 5 GHz band will reach 867 Mbps at full modulation. The RL-5525 series is a very cost effective, high performance unit that can be configured to support point-to-point, point-to-multipoint and MESH topologies.

Key Features

- 2.4GHz and 5GHz concurrent radios
- 2.4GHz 26dBm and 5GHz 30dBm aggregate power
- Data rates of up to 867Mbps in 802.11ac 80 MHz channel
- Antenna Alignment Site Survey - LEDs/Buzzer
- Adjustment for long range transmission
- Small Form Factor with Built-in 2x 8dBi 2.4GHz Omni Dipole array and 17dBi 5GHz Dual-polarization antennas
- 2x RP-SMA Male Connector for External Antenna (optional)
- Web interface or unit can be managed with available

Software Configurations

Dual-band concurrent operation

AP with Backhaul

Dual AP

CPE

Point-to-Point

Point-to-Multipoint & MESH

802.11ac+802.11bgn AP /
802.11an+802.11bgn AP

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Specifications

Model	RL-5525-8-17
Antennas	2.4GHz: 2x Integrated 8 dBi Omni Dipole array antenna 5GHz: Integrated 17 dBi Dual-polarization antenna
Power Consumption	14.5 watts max
Input Power	Included Passive PoE 24-56V or IEEE 802.3af (optional)
Reset Button	Yes
LED's	Indicators: Power LED, LAN Activity, 4x Signal Indicator
Interface	2x Gigabit Port (Auto MDI-X) 10/100/1000 supported
Certification	FCC and CE Certified, RoHS Compliance
Radio Power	2.4GHz 26dBm and 5GHz 30dBm aggregate power
WiFi Standards	IEEE 802.11ac/a/b/g/n compliant
Management	Optional Controller, Web Interface, SNMP
Operating System	RapidusWRT based OS included
Dimension (H x W x D)	278.5 x 122.2 x 94.5 mm
Temperature	Operating: -60°C to 70°C, Storage: -40°C to 90°

RF Performance

	Data Rate	Tx Power (per chain)	Tx Power (2 chains)	Tolerance
2.4GHz 802.11b	1Mbps	23dBm	26dBm	±2dB
	2Mbps	23dBm	26dBm	±2dB
	5.5Mbps	23dBm	26dBm	±2dB
	11Mbps	23dBm	26dBm	±2dB
2.4GHz 802.11g	6Mbps	23dBm	26dBm	±2dB
	9Mbps	23dBm	26dBm	±2dB
	12Mbps	23dBm	26dBm	±2dB
	18Mbps	23dBm	26dBm	±2dB
	24Mbps	23dBm	26dBm	±2dB
	36Mbps	22dBm	25dBm	±2dB
2.4GHz 802.11n HT20	48Mbps	20dBm	23dBm	±2dB
	54Mbps	19dBm	22dBm	±2dB
	MCS 0	23dBm	26dBm	±2dB
	MCS 1	22dBm	25dBm	±2dB
	MCS 2	22dBm	25dBm	±2dB
	MCS 3	22dBm	25dBm	±2dB
	MCS 4	21dBm	24dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB
2.4GHz 802.11n HT40	MCS 6	18dBm	21dBm	±2dB
	MCS 7	17dBm	20dBm	±2dB
	MCS 0	23dBm	26dBm	±2dB
	MCS 1	22dBm	25dBm	±2dB
	MCS 2	22dBm	25dBm	±2dB
	MCS 3	22dBm	25dBm	±2dB
	MCS 4	21dBm	24dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB
MCS 6	18dBm	21dBm	±2dB	
MCS 7	17dBm	20dBm	±2dB	

	Data Rate	FDX Specifications Sensitivity	Tolerance
2.4GHz 802.11b	1Mbps	-95dBm	±2dB
	2Mbps	-94dBm	±2dB
	5.5Mbps	-92dBm	±2dB
	11Mbps	-90dBm	±2dB
2.4GHz 802.11g	6Mbps	-94dBm	±2dB
	9Mbps	-93dBm	±2dB
	12Mbps	-93dBm	±2dB
	18Mbps	-90dBm	±2dB
	24Mbps	-90dBm	±2dB
	36Mbps	-85dBm	±2dB
2.4GHz 802.11n HT20	48Mbps	-81dBm	±2dB
	54Mbps	-79dBm	±2dB
	MCS 0	-93dBm	±2dB
	MCS 1	-91dBm	±2dB
	MCS 2	-89dBm	±2dB
	MCS 3	-84dBm	±2dB
	MCS 4	-82dBm	±2dB
	MCS 5	-79dBm	±2dB
2.4GHz 802.11n HT40	MCS 6	-79dBm	±2dB
	MCS 7	-75dBm	±2dB
	MCS 0	-90dBm	±2dB
	MCS 1	-87dBm	±2dB
	MCS 2	-84dBm	±2dB
	MCS 3	-83dBm	±2dB
	MCS 4	-81dBm	±2dB
	MCS 5	-79dBm	±2dB
MCS 6	-78dBm	±2dB	
MCS 7	-74dBm	±2dB	