



Regulatory Compliance/Professional Installation

- Safety Information (USA, Canada, & European Union)

This product has been evaluated to, and complies with, the Safety requirements of UL60950:2000, and IEC60950:1999; the Standards for the Safety of Information Technology Equipment. When using this device, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- Operate and install this product as described in this manual. This device must be installed and used in strict accordance with the manufacturer's instructions.
- This product is suitable for installation in air handling spaces (plenum).
- Use only the AC/DC power supply adapter provided. For replacement, contact your local supplier or distributor.
- To avoid the risk of electric shock from lightning, do not use this product during an electrical storm.
- Installation of this product must conform to local regulations and codes.
- When using this product with an external antenna, see the installation documentation provided with the antenna system.
- No user serviceable parts; all repairs and service must be handled by a qualified service center.

Federal Communications Commission (FCC) Compliance

This device operates at 5.25 - 5.35 GHz, and 5.75 - 5.85 in compliance with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

To comply with the FCC radio frequency exposure requirements, the following antenna installation and device operating configurations must be satisfied:

- Product models using external antennas require professional installation. The antennas used for professional installation must be fixed-mounted on indoor/outdoor permanent structures with a separation distance of at least 100 cm from all persons.
- Antennas must not be co-located and must not operate in conjunction with any other antenna or transmitter.

Modifications

Changes or modifications to this device that are not expressly approved by the manufacturer of the product could void the user's authority to operate the equipment.

Warnings

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Adjusting Tx Output Power

Use the following formula in combination with the table of EIRP limits in US and EU countries to calculate system transmit power (based on EIRP limits) of these countries:

$$\text{Tx Power (dBm)} = \text{EIRP Limit (dBm)} + \text{FL (dB)} - \text{G (dB)}$$

where:

Tx Power = Output power measured at the antenna input

EIRP Limit = EIRP limits specified below

FL = Feeder loss including loss of connectors

G = Antenna Gain

Frequency (GHz)	Bandwidth (MHz)	EIRP Limit (dBm)	
		USA	EU
5.25 - 5.35	—	30	20
5.725 - 5.850 (Point to multipoint)	—	36	14
5.725-5.850 (Point to point)	—	no	14

Antenna Types and Maximum Gain

For devices using external antennas, professional installers should select only the antenna types listed in the following table, with gain not exceeding the listed maximum gain for each type.

Antenna Type	Maximum Gain
Omni	10
Sector	17