



**Where**

**Automation**

**Connects**

# Wireless I/O System

## 2.4 GHz Maximum RF Range Chart



### Radio to Radio w/ Matching Antennas (Point-to-Point)

Radio A			Radio B			Max RF Range		
Tx Power	Antenna		Tx Power	Antenna				
mw	dBi	Type	mw	dBi	Type	Meters	Feet	Miles
63	2	Bulkhead	63	2	Bulkhead	1,376.0	4,514.4	0.9
63	5	Short Omni	63	5	Short Omni	6,458.0	21,187.7	4.0
63	8	Long Omni	63	8	Long Omni	7,814.0	25,636.5	4.9
63	19	Vagi	63	19	Vagi	9,245.0	30,331.4	5.7

### Radio to Radio w/ Different Gain Antennas (Point-to-Point Architecture)

Gateway A			Gateway B			Max RF Range		
Tx Power	Antenna		Tx Power	Antenna				
mw	dBi	Type	mw	dBi	Type	Meters	Feet	Miles
63	19	Vagi	63	5	Short Omni	6,472.0	21,233.6	4.0
63	19	Vagi	63	8	Long Omni	7,609.0	24,963.9	4.7

*The maximum RF range data was collected with clear line of sight between antennas.  
Actual wireless RF range may vary depending on location, interference, weather, antenna and cable setup, and line of sight.*