



Orion from Wireless Interactive is an excellent point-to-point and point-to-multipoint solution for wireless backhaul and "last mile" applications. It is especially effective when circumstances call for a lower frequency to reach hard to get places where higher frequency products can not.

In addition to lower frequency advantages, Orion has the ability to provide high data throughput in the smallest amount of channel bandwidth, while implementing OFDM technology. OFDM technology, high throughput, up to 398mW (26dBm) of output power, and channel selectivity at the 400 MHz frequency is unprecedented.

### Applications

Long distance PTP or PTMP bridging.  
 Low frequency applications  
 Sensor data capture in embedded systems.  
 Home automation and building control.  
 Telecom, Police and Military.  
 Dedicated ISP connections for high-reliability subscribers.  
 Enterprises or Institutional LAN and PBX extension.

### Flexibility

Orion allows for the connection of an external antenna, whenever necessary, for a given application or environment.

### Manageability

Orion is easily manageable from a web browser, and in addition, built-in SNMP support lets the operator expand the network with ease.

### Reliability

Building on a history of designing reliability into a product with its successful unlicensed radios, Wireless Interactive continues the tradition of robust design and stability with Orion, creating one of the most reliable products on the market.

### Security

WEP encryption of 64, 128, or 152 bits and MAC filtering provide the highest security mechanisms to prevent intrusion and malicious attacks.

### WEIGHT

1.80 kg (3.97 lbs)

### PHYSICAL DIMENSIONS (W x L x H)

9.84 x 10.2 x 2.95 in  
 250 x 259 x 75mm

### RADIO

Frequency	460 - 500 MHz			
Channel Bandwidth	5 MHz / 10 MHz / 20 MHz, adjustable via system software			
Output Power and Rx Sensitivity Rx Sensitivity @ 10% Packet Error Rate	Data Rate	Modulation	Tx Output Power	Rx Sensitivity
	54Mbps @ OFDM	64 QAM	33 (+/- 1.5dBm)	-75 dBm
	36Mbps @ OFDM	16 QAM	33 (+/- 1.5dBm)	-83 dBm
	18Mbps @ OFDM	QPSK	36 (+/- 1.5dBm)	-86 dBm
	6Mbps @ OFDM	BPSK	36 (+/- 1.5dBm)	-98 dBm
Frequency Stability	+/- 10 ppm			
Modulation	OFDM			
Range	Up to 30 Km. (varies based on channel bandwidth)			

### INTERFACES

RF (antenna) connector	N-type (Jack)
Ethernet	Automatic, IEEE 802.3(10Base-T) / IEEE 802.3u(100Base-Tx)

### MANAGEABILITY

Setup	Web-based
SNMP agents	MIB II
Protocol	TCP/IP, IPX/SPX, NetBEUI
Operating System	Windows 98, 2000, NT, XP
Network Architecture	Base Station, CPE and Peer-to-Peer
DHCP supports	DHCP Client
Other Features	VLAN (IEEE 802.1Q)

### SECURITY

Data Encryption	64/128/152 bits encryption WPA-PSK, WPA-TKIP, WPA2-AES 128-bits
Authorization	MAC Address Access Filter
Advanced security	Disable broadcast SSID Wireless Client Security Separation (Layer 2 Isolation)

### POWER SUPPLY

Power Source	DC 48V
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### ENVIRONMENT

Operating Temperature	-30 C ~ 55 C
Storage Temperature	-30 C ~ 70 C
Humidity	95% non-condensing

### WARRANTY

1 year
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