



The Wireless Interactive series of power amplifiers, operating on the 2.4 GHz ISM band are high performance two-way amplifiers that utilize Time Division Duplex (TDD) technology. They are used outdoors to extend the range of wireless radio communication system applications such as Wireless Local Loop (WLL), Wireless Local Area Network (WLAN), Wireless Internet Access (WIA), in a point-to-point or point-to-multipoint configuration. The units are compatible with TDD radio devices including IEEE 802.11b/g standards, DSSS (Direct Sequence Spread Spectrum), FHSS (Frequency Hopping Spread Spectrum) and RS-232 devices.

## APPLICATIONS

Computer control rooms  
Educational institutions  
Manufacturing facilities  
Server farms  
Transmitter/Receiver stations  
Commercial offices

### RF CHARACTERISTICS

Standards	IEEE 802.11g / 802.11b compatible	
Operating Frequency Range	2400~2500MHz	
Operating Mode	Bi-directional	
Transmitter Output Power	0.5W / 1W (2W / 4W available outside the U.S. only)	
Transmitter Input Power	2 dBm (min.) / 15 dBm (max.)	
Receiver Input Power	-16 dBm (max.)	
Receiver Gain	WIPA241W	16 dB typical
	WIPA242W / 4W	20 dB typica
Frequency Response Flatness	+/- 1 dB over operating range	
Noise Figures	< 4 dB	
Switch Time	< 1.5 $\mu$ s	
Connector	N-type (jack); 50 ohm	

### POWER CONSUMPTION

WIPA245M	55mA @9V DC
WIPA241W	485mA @ 12V DC
WIPA242W	1.3 A @ 12V DC
WIPA244W	1.8 A @ 12V DC

### PHYSICAL

Dimensions	WIPA241W	120 (L) x 72 (W) 17.5 (H); mm
	WIPA242W / 4W	147 (L) x 88 (W) 28 (H); mm
Weight	WIPA241W	380 g
	WIPA242W / 4W	500 g

### ENVIRONMENT

Operating Temperature	-30 deg. C ~ 60 deg. C
Storage Temperature	-40 deg. C ~ 70 deg. C
Humidity	95% non-condensing