

Wireless Interactive's WIFC2458H operating on the 5.8GHz ISM band is a high performance two-way converter and amplifier using Time Division Duplex technology. It is used outdoors to extend the range of wireless radio communication system such as Wireless Local Loop, Wireless Local Area Network, Wireless Internet Access and wireless connection with point-to-point and point-to-multipoint. The WIFC2458H allows the user to keep their existing 2.4GHz infrastructure saving thousands of dollars in replacement costs. This device converts the operating frequency from 2.4GHz to 5.8GHz band and compatible with TDD radio devices including IEEE 802.11b standard, DSSS (Direct Sequence Spread Spectrum) and RS-232 devices.



### Features and Benefits

- Converts the operating frequency from 2.4GHz to 5.8GHz band
- 5725~5850 MHz unlicensed ISM Band
- 200mW output power level.
- 20 dB receive gain
- Bi-directional TDD technology
- Transmitter and receiver LED
- Waterproof housing

### Specifications

**Operating / Input Frequency Range**

5725~5850 MHz; 2400~2490 MHz

**Operating Mode**

Bi-directional TDD

**LO Frequency & Frequency Stability**

3360 MHz;  $\pm 2.0$  ppm

**Transmitter Output Power**

23 dBm (200mW)

**Transmitter Gain**

Automatically adjusts to 200mW power output

**Transmitter Input Power**

Min: 0dBm (1mW)

Max: 20dBm (100mW)

**Receiver Input Power**

Max: -10dBm (0.1mW)

**Receiver Gain**

20 dB Typical

**Frequency Response Flatness**

$\pm 1$ dB over operating range

**Noise Figure**

< 5 dB

**Switching Time**

< 1  $\mu$ S

**Connector**

N-type Female (50 $\Omega$ )

**Operating Temperature**

-30°C~60°C

**Power Consumption**

700mA @12 VDC

**LED Indication**

Transmit: Green

Receive: Red

**Dimensions**

195(L)x95(W)x23(H) mm

**Weight**

720g

Specifications subject to change without notice.

(Sept. 2003)