

## Technical Description

	ip Datatel Inc
Product Name:	Digital Transmission System in a Zigbee/802.15.4 protocol.
Certification Number: (FCC ID or IC:)	FCC ID: YUX-IPDZGWV2 IC: 9292A-IPDZGWV2
	Model No. IPD-ZGW-V2

**General description:** The device is a transceiver that communicates with similar devices to transmit alarm signals and receive alarm panel control commands.

### **Transceiver circuit:**

- **RF chipset: MRF24J40**
- **Operating frequency band: 2405 – 2495 MHz**
- **RF antenna output impedance: 50 Ohms**
- **Antenna gain: 0.8 dBi**
- **Modulation: QPSK**
- **Firmware code: 3258B**
- **Regulated supply voltage to radio: 3.3V**
- **Reference crystal(X1): 20MHz**
  
- **RF balun circuit: Component list:**
- **Capacitors - 0.1uF, 47pF, 0.5pF(X2), 1.0pF(X2)**
- **Inductors – 3.3nH, 6.8nH, 8.2nH, 5.6nH**
  
- **RF power behavior over frequency and temperature: None documented by manufacture.**
  
- **No. of transmit channels: 16**
- **Channel separation: 5MHz**
- **Channel Bandwidth: 802.15.4**
- **Frequency hopping algorithm: None, DSSS is used**