

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-IPDKZIV2 IC: 9292A-IPDKZIV2
	Model No. IPD-KZI-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 manufacturer.
- No. of transmit channels: 16
- Channel separation: 5MHz
- Channel Bandwidth: 802.15.4
- Frequency hopping algorithm: None, DSSS is used