

LOW POWER LIGHT WEIGHT DATALINK



Product Overview

The Rangsons Datalink product line offers a lightweight, low-power Datalink solution designed to address the growing demands for security, high data throughput and versatile multi-platform operations in today's market. Our best-in-class software-defined cognitive radio technology, coupled with advanced antenna systems, machine learning, and enhanced networking capabilities, underscores our dedication to setting new industry standards.

Specifications

Data Direction	: Bi-Directional
Channel Type	: TDD
Frequency Range	: 2.1GHz to 2.5GHz
Transmit Power	: Up to 1 Watt
Data Rate	: Up to 20 Mbps
Encryption	: AES256 (optional)
RF Connectors	: MMCX
Data Connector	: TFM Series
Dimensions (WxDxH)	: 103 x 45 x 24 mm
Weight	: <=130g

Key Features

- **Advanced Software-Defined Radio:** Dynamic data rates, Quality of Service (QoS) and adjustable power transmission for optimal performance
- **Flexible Topology:** Supports a wide range of configurations, from simple point-to-point to complex network topologies
- **Interference Mitigation:** Features frequency hopping, continuous scanning and built-in advanced techniques to minimize interference
- **Bandwidth Options:** Offers bandwidth from 2 MHz to 8 MHz, enabling data transfer rates of up to 20 Mbps.
- **Comprehensive Solution:** Includes Ground communication antennas with integrated transceivers, offering tracking based on RSSI (received signal strength) or GPS
- **Navigation Support:** Range measurement and angle tracking, enhancing navigation in GPS-constrained areas.
- **Proven in the Field:** Reliable performance in real-time, combat and operational environments
- **User-Friendly:** Easy to install and operate, across various platforms and applications
- **Secure Communication:** Utilizes robust encryption protocols to protect sensitive data