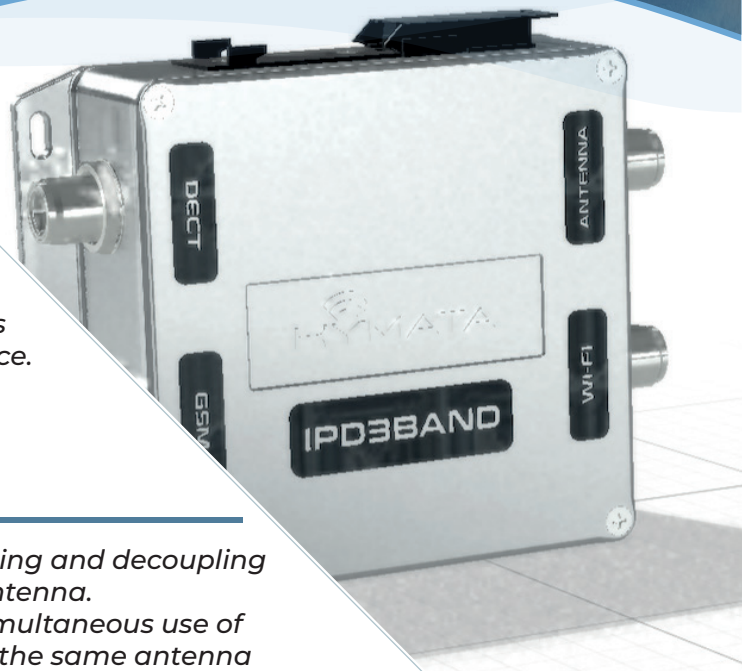
KYMATA

Kymata Integrated Passive Devices

IPD3BAND

GSM/DECT/Wi-Fi Frequency-Domain Triplexer



Application Scope

Kymata provides an advanced solution for indoor and outdoor radio coverage in large logistical and industrial environments.
The Kymata antennas and amplifiers address signal issues effectively and economically, ensuring superior performance.
The intuitive web interface and SNMP management offer comprehensive control over industrial wireless networks.

IPD3BAND Triplexer Module

The IPD3BAND is a passive triplexer designed for the coupling and decoupling of GSM, DECT/LTE, and Wi-Fi signals on a single Kymata antenna.
It enables efficient signal management by allowing the simultaneous use of multiple wireless systems (GSM, DECT/LTE, and Wi-Fi) over the same antenna infrastructure.
This module is ideal for installations that require the integration of multiple wireless technologies in a single antenna system, optimizing spectrum use in high-density environments.

Key Features

- ***Triple-Band Operation***
  Operates across GSM, DECT/LTE, and Wi-Fi bands, enabling the coupling and decoupling of signals on the same Kymata antenna. This provides seamless connectivity across different wireless technologies in a shared environment.
- ***Efficient Spectrum Use***
  Maximizes the utilization of available spectrum by managing multiple systems on a single antenna, reducing the need for separate infrastructure for each wireless technology.
- ***Enhanced Network Flexibility***
  Supports the concurrent operation of GSM, DECT/LTE, and Wi-Fi systems, offering flexibility for diverse network deployments in industrial and commercial environments.
- ***Passive Design***
  No external power source is required, simplifying installation and reducing maintenance needs.

Benefits

- ***Optimized Spectrum Efficiency***
  By coupling and decoupling signals from different wireless systems, the IPD3BAND ensures optimal use of the available spectrum, improving overall network performance.
- ***Seamless Integration***
  Designed to integrate effortlessly with existing Kymata antenna configurations, supporting both small-scale and large-scale network deployments.
- ***Versatile Wireless Deployments***
  Provides the flexibility to support GSM, DECT/LTE, and Wi-Fi systems on the same antenna, allowing for scalable and versatile network setups in industrial environments.

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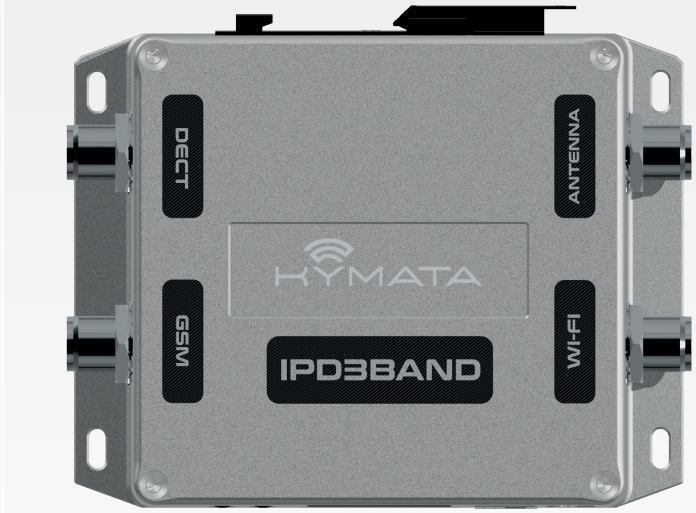
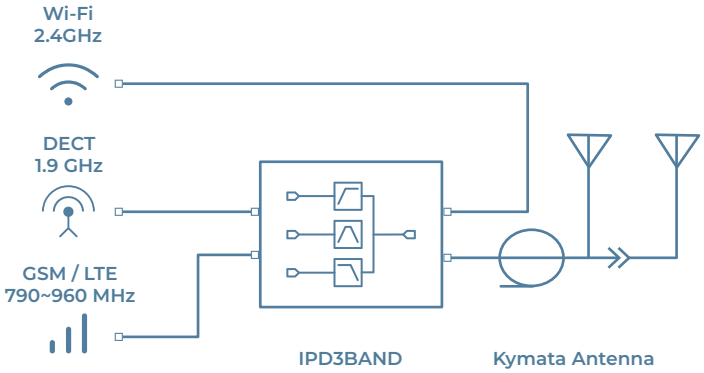
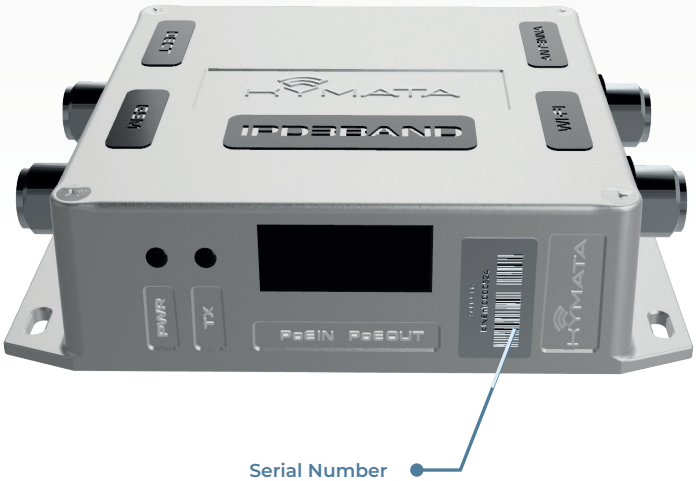
Technical Specifications

Impedance Type	50 Ω
Working Frequency	- GSM: 790 ~ 960 MHz - DECT/LTE: 1710 ~ 2170 MHz - Wi-Fi: 2.400 ~ 2.500 MHz
Insertion Loss	1.5 dB ± 0.2 dB
Max Power Input	<10 Watt
Connector Type	4 x N female
Supported Antenna Models	ANT2L, ANT2C, ANT5L, ANT5C, ANT5MM, ANT5AW Series



Connection Scheme





Energy Saving*