

Wirnet™ iBTS 64 HIGHWAY

Looking for a solution to get the maximum of your IoT* network?

(*) Internet of Things

#IoT #LoRaWAN #LoRa #SmartCities #smart #buildings #industrie40 #smartfactory
#IntelligentMetering and many more !

Key features

High capacity to connect the maximum of your LoRa sensors:

- **Full-Duplex Carrier-Grade LoRaWAN Gateway :**
 - 64ch RX (125 kHz, multi Spreading Factor) + 8 ch RX (500kHz, mono Spreading Factor) to get 72ch. RX + 4ch TX (without antenna diversity)
 - (32ch + 32ch) RX (125 kHz, multi Spreading Factor), + (4ch + 4ch) TX (with antenna diversity)
- **ISM 915 band : 902-915 MHz (Rx), 923-928 MHz (Tx)**
- Dual Wan in option

A concentrate of performance, reliability and robustness:

- Carrier grade with low heat dissipation (below 75°C in the casing) for a better robustness and reliability
- Internal cavity duplexer in the enclosure to reject interferences from adjacent bands by up to 130dB (<1GHz) and 100 dB (1to 3 GHz) and to get perfect simultaneity of Rx/Tx
- Rx Sensitivity: -137 dBm (SF10), (SF12 not allowed in the USA)
- Ultra-secure HW and SW architectures: Secure core and secure bootstrap for market-leading protection:
 - Signed firmware management
 - Local and remote access and management
 - Secured links management and secured backhaul
 - Secure reboot (watchdog) and recovery on previous config (or factory config if the boot issue is not fixed)
- Lightning protections and robustness of LoRa link
- Backup batteries to allow the clean shut down of applications in case of power cut
- Casing: Operating
 - IP66 : (withstand water projected from 0.50-inch nozzle, multi-directional, high-pressure jets - minimum of 3Mn, at a distance of three yards, with a water volume of 26.4 gallons/Mn and a pressure of 100 kPa)
 - Range -40°C +60°C,
 - Size : 280 x 250 x 120 mm
 - Weight : 9kg

All product specifications are subject to change without notice



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Your benefits

A future proof solution for superior durability:

- **Geolocation ready:** Using the fine timestamps on ALL the 64 channels for improved geolocation services thanks to 4 FPGA. Fully compliant with Semtech reference design v2. No proprietary locked solution;
- **E-LORA Ready:** Evolutive design using modem SDR (Software Design Radio) architecture
- Evolutive Cellular Backhaul (3G / 4G) to 5G (mini-PCI in WAN module)

Quick and flexible deployment:

- Low energy consumption 30W
- Power: 11-56V (solar power possible 12 or 24V) or Power Over Ethernet (POE) with cable: 100m max

Easy and secured operations:

- Standalone management via Graphical User Interface /Web pages or centralized management with Wanesy™ Management Center (Based on the same SW release than the Kerlink Wirnet™ portofolio) to reduce operational costs.
 - Commissioning : End-Devices, Gateways ...
 - Configuration : radio and backhaul configuration (3G/4G APN, PIN), ...
 - Monitoring : KPI on System Health, Usages ...
 - Maintenance : Software Update/Upgrade (2 ways image recovery "previous state" and "factory")
- 4 out-band radio scanners to monitor the entire band to detect real load of the band
- Open-source network daemons to manage and monitor all connections (Cellular, Wifi, Ethernet) and simplify application development over the Wirnet™ family
- OpenVPN and IPSec support with Secure Storage by ProvenCore"
- Standard packet format (DPKG/OPKG) for easy and reliable application deployment or updates and much more ...

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