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)
 - o (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:

- o Signed firmware management
- o Local and remote access and management
- o 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,
 - $\circ \quad \text{Size: } 280 \text{ x } 250 \text{ x } 120 \text{ mm}$
 - Weight : 9kg

All product specifications are subject to change without notice



NETWORKS SOLUTIONS FOR THE INTERNET OF THINGS



Wirnet™ iBTS 64 HIGHWAY

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.

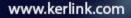
- Commissioning : End-Devices, Gateways ...
- Configuration : radio and backhaul configuration (3G/4G APN, PIN), ...
- Monitoring : KPI on System Health, Usages ...
- Maintenance : Software Update/Upgrade (2 ways image recovery "previous state" and "factory")
- 4 out-band radio scanners to monitor the 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 ...

Ker**link**

1 Rue Jacqueline Auriol 35235 THORIGNE-FOUILLARD (France) <u>sales@kerlink.fr</u> +33 2 99 12 29 00

🥣 @Kerlink_news 🛛 ከ Kerlink

All product specifications are subject to change without notice



NETWORKS SOLUTIONS FOR THE INTERNET OF THINGS

