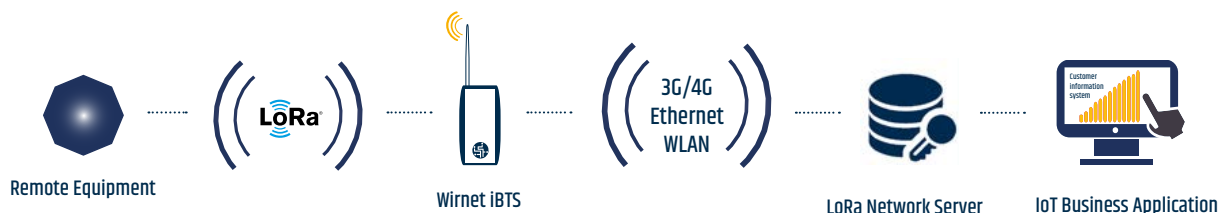# kerlink
communication is everything

Wirnet iBTS
Gateway «Long Range» LoRa® for public networks

Wirnet iBTS is designed to meet the needs of M2M and IoT service operators who want to offer a **public IoT network**

Wirnet iBTS makes easier the set-up of the network and end-points functioning. It enables to carry out the network, run out the maintenance and the supervision of the fleet of modules.

Wirnet iBTS in the IoT chain

Remote Equipment — LoRa® — Wirnet iBTS — 3G/4G Ethernet WLAN — LoRa Network Server — IoT Business Application

**BASESTATION CONTROLLER & RADIO NETWORK CONTROLLER INSIDE**

STRENGHTS

• Low power supply consumption

• Long Range allowing a better data collection (Range : More than 15 km in direct sight and 2 km in urban environment)

• Easy installation & upgrade

• Light infrastructure

• Interferences-resistant for a better data transmission

• Bidirectionnality

• Modularity

• Evolutivity (i.e. custom Front RF development)

TECHNICAL FEATURES

• Powerful processor ARM - Linux operating System
• LoRa Sensitivity up to -141 dBm
• ISM bands : 868, 915FCC, 920/925, 433 MHz
• Transmit power up to 27 dBm
(custom power-up to 43dBm)
• Size : 300 x 280 x 120 mm - Weight : 6 kg
• FCC / IC / ETSI certified
• Backhaul via 3G, 4G, Ethernet or WLAN
• Robust and waterproof case : IP66
• Full operating range : -20°C to +60°C
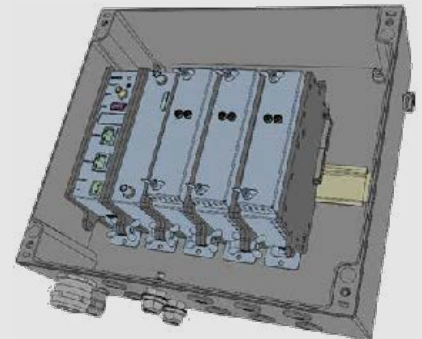• PowerOverEthernet

Examples of configurations
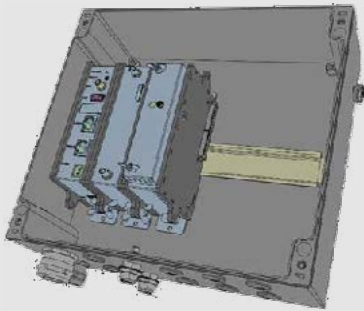
Configuration Data Only (or Loc) Omnidirectional :

> 1 UC board, on the left;
> 1 WAN board, on the middle;
> 1 LoRa modem module with 1 input for antenna (thus to be used with 16 channels), on the right.

Configuration Data Only (or Loc) Tri-sector and polarised antennas :

> 1 UC board, on the left;
> 1 WAN board, on the middle;
> 3 LoRa modem module with 2 inputs for antenna on each (thus to be used with 8 channels), on the right.

Configuration Data Only (or Loc) 64-channel Omnidirectionnal* :

> 1 UC board, on the left;
> 1 WAN board, on the middle;
> 4 LoRa modem module with 1 inputs for antenna (thus to be used with 64 channels), on the right.

(* typical full FCC compliant configuration)