

EkkoHub V3

Wireless Data Receiver



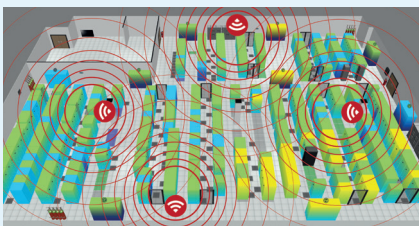
- EkkoHub collects and forwards wireless data from up to 500 EkkoSensors
- Transfers data to cloud-based EkkoSoft® Critical software
- Can operate as a combined wireless data receiver and data aggregator to support Edge sites

EkkoHub collects and forwards measurement data from up to 500 wireless EkkoSensors within a 20m radius. Multiple EkkoHubs can connect to an onsite EkkoLink which provides local data aggregation and storage, and implements secure connectivity with EkkoSoft Critical.

EkkoHub can also be quickly configured to operate in 'EkkoSoft Direct' mode as an EkkoLink Mini. The EkkoHub then connects directly to EkkoSoft Critical without the need for a separate EkkoLink Data Aggregator.

In this mode EkkoHub can use its second Ethernet port to accept data from another EkkoHub and acquire data from Modbus/TCP, BACnet and SNMP devices for energy monitoring and alarming functionality. This makes it an ideal solution for smaller Edge sites.

EkkoHub V3 features...



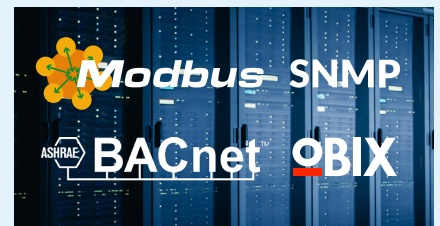
Simple to deploy

EkkoHub couldn't be any easier to deploy - simply distribute EkkoHub devices evenly across your monitored areas, plug them in and switch on.



Support for Edge sites

EkkoLink Mini configuration makes EkkoHub an ideal monitoring and alarming solution for remote Edge facilities - from small server rooms to sites with up to 200 sensors.



Comprehensive integration

To enable integration with existing 3rd party systems, EkkoHub also features Modbus/TCP, SNMP and BACnet integration for complete coverage.

Images show actual software footage



Critical Things®



EkkoHub V3



The EkkoHub is compatible with all members of the Critical Things® sensor family, temperature and humidity sensors (THX, TDX), wireless EkkoAirs and EkkoCTs.

The EkkoHub can be powered by Power over Ethernet or from a local 5V DC supply. Four LEDs on the front panel provide real-time status information.

EkkoHub's radio interface is encrypted with 128 bit AES to match the Critical Things® sensors. TLS is used to protect data on the wired interface.

The EkkoHub will mount on any flat surface using the separate mounting plate, ensuring installation is fast and tidy. Alternatively, with an adapter accessory, it can be DIN rail mounted.

The EkkoHub has an internal antenna which provides excellent performance in most situations. A conversion kit is also available to enable an external antenna to be used where necessary.

In its EkkoLink Mini mode, the EkkoHub is well suited to Edge installations with up to 200 Critical Things sensors and up to 20 Modbus/BACnet/SNMP devices.

In addition to European and North American regulatory approval, EkkoHub is approved for use in a growing list of other countries. Contact EkkoSense for the latest information.

Technical specifications

Operating temperature range
0°C to 40°C (32°F to 104°F) ambient

Operating humidity range
5% to 90% relative humidity

RF data link
GFSK 250kbit/s at 868.3MHz (ES version) or 923MHz (FS version). GFSK at 100kbit/s at 919.8MHz (AS version)

Operating range (from EkkoSensors)
>20m (22yds) (>15m in Japan)

Power supply
IEEE802.3af Power over Ethernet or 5V DC 2.5A

Enclosure material
Black ABS

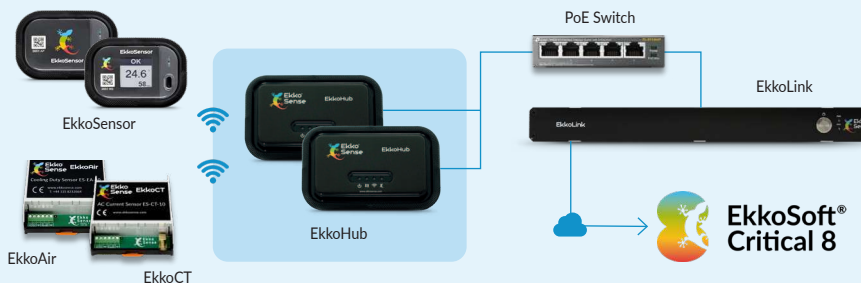
Mounting method
Separate bracket with two fixing holes. EkkoHub twists and locks onto bracket
Option for DIN rail mount

Core regulatory approvals
CE marked:
Radio - EN 300 220-2 V3.1.1
EMC - EN 61326-1 and EN 301 489-3
Safety - IEC 62368
Radio - FCC CFR 47 Part 15C, ISSED RSS-247
EMC - FCC CFR 47 Parts 15.107 and 15.109, ICES-003

Approved countries
Australia, Brazil, Canada, Chile, China, Columbia, European Union, Hong Kong, India, Japan, New Zealand, Saudi Arabia, Singapore, South Africa, South Korea, UAE, UK, USA, Vietnam.

Standard deployment

Position in EkkoLink architecture



Secure 128-bit AES encryption



EkkoLink Mini mode for Edge support



Integration with existing 3rd party systems



Comprehensive integration capabilities for complete data center coverage

Bring the power of EkkoSense AI to your critical facilities

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Book a demo

