iWAP XN3

UNIVERSAL WIRELESS ENCLOSURE SYSTEM FOR ZONE 2 AND DIVISION 2 HAZARDOUS AREAS

Use any wireless technology, including Wi-Fi access points, UHF RFID readers, LTE routers, IoT gateways including LoRa, and more

ATEX and IECEx Zone 2 and 22 certified

cMETus Class I, II Division 2 and Zone 2 certified

Available in four sizes to suit your chosen wireless technology

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iWAP XN3

The iWAP XN3 is a safe, reliable way to use the latest wireless technologies in ATEX and IECEx Zone 2 and 22 and North American Class I, II Division 2 and Zone 2 hazardous areas.

It's configurable to suit your application, and our engineers will help you get the right solution to enable your site's digital transformation.

FULLY CERTIFIED FOR HAZARDOUS AREAS

The iWAP XN3 comes complete with all the certification needed for installation in ATEX, IECEx, and North American hazardous areas. You don't need additional certification, no matter which wireless technology you choose.

YOUR CHOICE OF WIRELESS TECHNOLOGY

The iWAP XN3 is a truly universal system – you choose whichever wireless technology you like, from any vendor. That includes Wi-Fi access points, UHF RFID readers, LTE routers, and IoT gateways with technology like LoRa, WiHART, and ISA100.

EASY INSTALLATION & LOW MAINTENANCE

The iWAP XN3 is lightweight and easy to manoeuvre in a variety of locations, with wall and pole mount options available.

The external junction box puts practicality at the forefront, allowing you to use the cabling and glands of your choice. It also means that there's also no need for routine nR maintenance testing.

USE NON-CERTIFIED ANTENNAS

The iWAP XN3 includes our leading iSOLATE technology, providing intrinsically safe RF outputs with standard N-type connectors. That means you can use non-certified simple apparatus antennas, giving you more choice, optimal performance, and a lower budget spend.

HIGHLY RUGGED

Made from marine-grade aluminium and finished with a durable epoxy powder coating, the iWAP XN3 is designed for outdoor installation in harsh industrial environments. It's IP66 and NEMA 4 rated too, able to withstand exposure to the elements.

IP66   **NEMA 4**

THERMALLY ENGINEERED

The iWAP XN3 has an innovative extruded body with fins that act as heat sinks and the white epoxy powder coating minimises the impact of solar loading, reducing the internal temperature of the enclosure and allowing the iWAP XN3 to be deployed in high ambient temperatures.

MEET THE iWAP XN3 RANGE

The iWAP XN3 is available in four standard sizes to give you the most suitable solution that meets your technical needs. The innovative internal chassis design packs lots of functionality into a compact space.

Our team of engineers are on hand to guide you; they'll help you select the most appropriate model to meet the technical requirements of your application.

MODEL 24
Optimised for PoE Wi-Fi and UHF RFID reader applications

MODEL 15
Optimised for IoT gateways and small 802.15.4 devices

MODEL 36
Designed to allow deployment of additional switches and gateways alongside Wi-Fi or other radio equipment

MODEL 30
Optimised for AC/DC Wi-Fi, PoE Wi-Fi in high ambient temperatures, and fibre options

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EXAMPLE APPLICATIONS

COMMUNICATIONS

With more and more smartphones and tablets becoming available with hazardous area certification, enable your mobile workers to stay in touch. The iWAP XN3 is a cost-effective way to install a Wi-Fi or LTE network across your site, allowing those smart devices to connect with each other for real-time communications. Workers can access information on how to perform tasks correctly, seek assistance from experts without leaving their post, and record operational data more easily.

WORKER SAFETY

In a hazardous process industry environment, such as an oil rig, worker safety is paramount. The iWAP XN3 can be used to deploy the backbone infrastructure for a real time location system (RTLS) that allows workers to call for help in emergencies, be mustered quickly and accurately in an evacuation, and be located across your site for better security and accountability.

ASSET LOCATION

RTLS based on wireless technologies like Wi-Fi can also be used to manage assets. An industrial site has thousands of moving parts and tools. When a vital component goes missing mid-manufacturing order, it causes a serious hold up in the process, which in turn has a knock-on effect that makes the entire system inefficient. Being able to easily and accurately locate assets reduces search times and increases productivity.

REGULATORY COMPLIANCE

In highly regulated process industries, such as pharmaceutical manufacturing, you can use a wireless network to create a full digital audit trail. With workers carrying handheld smart devices and communicating through the wireless network, the risk of human error and data loss can be mitigated.

PREDICTIVE MAINTENANCE

Use the iWAP XN3 to access your trapped data. Sensors in remote outposts collect data on operational activity, such as vibration readings on pumps in a refinery. Instead of someone having to manually check the readings each month, why not use the iWAP XN3? With technology like a LoRa gateway inside, you could see the data more quickly and reduce the manpower needed to access information, making you better placed to carry out predictive maintenance more effectively and efficiently.

For technical specifications, please refer to the iWAP XN3 Technical Datasheet, available on www.extronics.com or send a request to info@extronics.com.

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