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

Your choice of wireless technology	**Fully certified for hazardous areas**
Highly rugged, IP66 and NEMA 4 rated	**Use non-certified antennas with the intrinsically safe RF outputs**
Easy installation and low maintenance	**Suitable for a wide range of temperatures**

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SPECIFICATION

Certification	Ⓔx II 3 (3) G Ex ec [ic Gc] nR IIC T6 Gc
	3 (3) D Ex [ic Dc] tc IIIC T85°C Dc
	cMETus Class I, Div 2, Groups A - D
	Class II, Div 2, Groups F - G
	cMETus Class I, Zone 2 AEx ec ic nR IIC T6 Gc
	Class II, Zone 22 AEx ec ic tc IIIC T85°C Dc
	-40°C <= Tamb <= 60°C
Power supply	Specify POE / POE+ IEEE802at, AC or DC power
Maximum power consumption	Dependant on access point chosen and power supply option, see below
Enclosure material	Marine grade copper-free aluminium alloy, epoxy powder coated
Ingress protection	IP66 and NEMA 4
Enclosure weight (approx. excluding AP)	Model 15 7.8 Kg Model 24 10.3 Kg Model 30 12.0 Kg Model 36 13.7 Kg
Dimensions (including connection chamber and mounting points)	Model 15 293 x 388 x 220 mm (height x width x depth) Model 24 383 x 388 x 220 mm Model 30 443 x 388 x 220 mm Model 36 503 x 388 x 220 mm
Operating temperature	Dependant on access point chosen, see below
Storage temperature	Dependant on access point chosen, see below
Relative humidity	0 to 95%, non-condensing
Input connections	POE / POE+ Gigabit Ethernet on Weidmuller 8-way wired connector with console connections RJ45 and mini USB B sockets or AC or DC power via Phoenix 1829167 socket with console connections RJ45 and mini USB B sockets and either Gigabit Ethernet on RJ45 connector or Dual LC fibre connector (specify multi mode or single mode fibre)
Output connection	Up to 8 galvanically isolated, intrinsically safe external RF outputs via external N-type RF connectors (maximum of 6 top or 6 bottom mounted). Internal surge arrestors are optional. Antennas may be Direct (top) mounted or Remote (bottom) mounted. Unless otherwise specified, Extronics will use the same number of RF outputs as available on the wireless device(s) chosen.

Frequency band	Insertion loss (dB)	Loss including surge arrestor (dB)
150MHz – 1GHz	0.25	0.40
1GHz – 3.5GHz	0.33	0.48
3.5GHz – 6GHz	0.38	0.53

Spot frequency	Insertion loss (dB)	Loss including surge arrestor (dB)
400MHz	0.22	0.37
900MHz	0.24	0.39
2.45GHz	0.32	0.47
5.5GHz	0.36	0.51

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ORDERING INFORMATION

![Extronics logo]

IWAP XN3 -[#1]-[#2]-[#3]-[#4] -[#5]-[#6]-[#7]-[#8]-[#9]

Specify option [#1]

Certification type

ATEX / IECEx and MET	AIUS
ATEX / IECEx only	AI

Select AI only if the wireless device to be fitted does not have applicable US Ordinary Locations approvals: Extronics can advise.

Specify option [#2]

Wireless network hardware supply

Extronics can supply the wireless hardware, or you may wish to 'free issue' (supply and deliver to Extronics at your cost) one of the already assessed solutions (see option #3), which we will factory fit.

Hardware supplied by customer	C
Hardware supplied by Extronics	E

Specify option [#3]

Wireless network hardware type

Operating temperature listed in brackets applies to POE or mains powered units with no solar loading.
Device temperature ranges are subject to certification limit of -40°C to +60°C.

Cisco AIR AP3802e access point (-20°C to +35°C)	66
Cisco AP1562e access point (-40°C to +50°C)	72
Aruba AP-318 access point (-40°C to +45°C)	82
Aruba AP-314 access point (0°C to +35°C)	71
New wireless hardware – order code to be advised	TBA

Specify option [#4]

Power supply

POE / POE+ IEEE802at compliant (chosen device must be compatible)	POE
110 - 240 VAC supply	AC
24 VDC	DC

Specify option [#5]

Ethernet connection

Gigabit Ethernet on CAT6A copper	C
Multi mode 1000BASE-LX fibre with dual LC connector	MF
Single mode 1000BASE-LX fibre with dual LC connector	SF

If a media converter is NOT required, the codes MFD or SFD will be designated by Extronics. A Media Converter may not be required if the wireless device can accept Direct fibre input via an SFP

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Specify option [#6]		
Antenna surge protection	Antenna surge protection fitted	S
	No antenna surge protection	N

Specify option [#7]		
Antenna mounting	Direct mounted antennas with connectors on top of enclosure	D
	Remote mounted antennas with connectors on underside of enclosure	R

Specify option [#8]		
Cable entries	2 x M20 on underside of connection chamber	M20
	2 x ½" NPT on underside of connection chamber	NPT

Specify option [#9]		
Additional wireless device to be included	No additional wireless device to be included	N
	If an additional wireless device is required, please contact Extronics for compatibility and pricing. An additional device may require Remote antenna mounting, even if Direct mounted antennas have been specified for the primary device	

Accessories:		
	iANT2xx range of rugged simple apparatus antennas (see separate data sheets)	IANT2xx
	316L stainless steel pipe mount bracket kit for iWAP XN3, to fit 2¼ - 2½" (58.0 - 63.5mm) diameter pipe.	IWAPMB08
	iWAP XN3 Test Kit for verifying Ex nR seals. Required to be used only if the Ex nR enclosure has been opened for repair.	IWAPTK01