# TECHNICAL DATASHEET





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

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X123139(4)





Certification	<ul> <li>II 3 (3) G Ex ec [ic Gc] nR IIC T6 Gc 3 (3) D Ex [ic Dc] tc IIIC T85°C Dc</li> <li>cMETus Class I, Div 2, Groups A - D Class II, Div 2, Groups F - G</li> <li>cMETus Class I, Zone 2 AEx ec ic nR IIC T6 Gc Class II, Zone 22 AEx ec ic tc IIIC T85°C Dc</li> <li>-40°C &lt;= Tamb &lt;= 60°C</li> </ul>
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 with electrophoretic base and polyester powder top coat
Ingress protection	IP66 and NEMA 4
Enclosure weight (approx. excluding AP)	Model 157.8 KgModel 2410.3 KgModel 3012.0 KgModel 3613.7 Kg
Dimensions (including connection chamber and mounting points)	Model 15293 x 388 x 220 mm (height x width x depth)Model 24383 x 388 x 220 mmModel 30443 x 388 x 220 mmModel 36503 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 <u>or</u> AC or DC power via Phoenix 1829167 socket with console connections RJ45 and mini USB B sockets <u>and either</u> Gigabit Ethernet on RJ45 connector <u>or</u> 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 - 1CHz 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



### 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	Extronics can supply the wireless hardware, or you may wish to 'free issue	e'
hardware supply	(supply and deliver to Extronics at your cost) one of the already assessed	
	solutions (see option #3), which we will factory fit.	
		C
	Hardware supplied by customer	C E
	Hardware supplied by Extronics	E
Specify option [#3]		
Wireless network	Operating temperature listed in brackets applies to POE or mains	
hardware type	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 +40°C)	66
	Cisco AP1562e access point (-40°C to +55°C)	72
	Aruba AP-318 access point (-40°C to +50°C)	82
	Aruba AP-314 access point (0°C to +40°C)	71
	New wireless hardware - order code to be advised	твс
		120
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 CAT6 copper	С
	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]		
Surge protection	Antenna surge protection fitted	S
	No antenna surge protection	Ν
	If surge proctection is selected, Ethernet surge protection will	
	also be included if option [#5] Ethernet CAT6 is selected.	
Specify option [#7]		
Antenna mounting	Direct mounted antennas with connectors on top of enclosure	D
Antenna mounting	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	No additional wireless device to be included	Ν
device to be included	16 and a lattice and a simple and a size of a second set of a second set of Technological	
	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	
Choice of Model:		
	Extronics engineers will select the optimum model	
	number/enclosure size for the wireless hardware and	
	option combination selected.	
Accessories:		
	iANT2xx range of rugged simple apparatus antennas IAN	T2xx
	(see separate data sheets)	1277
	316L stainless steel pipe mount bracket kit for iWAP XN3, IWAPN	1B08
	to fit 2¼ - 2½" (58.0 - 63.5mm) diameter pipe.	
	iWAP XN3 Test Kit for verifying Ex nR seals. Required to be IWAP	тко1
	used only if the Ex nR enclosure has been opened for repair.	

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