TECHNICAL DATASHEET

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Cassia Networks

iWAP XN3
X2000

Advanced BLE gateway for use in Zone 2, 22 and Division 2 hazardous areas, powered by Cassia BLE technology.

Long range Bluetooth gateway optimised for Industrial IOT applications

Connects to network via Ethernet, Wi-Fi or optional LTE

Extends Bluetooth connectivity up to 400m with Bluetooth 4 and up to 1km for Bluetooth 5 in open space

Highly rugged, IP66 and NEMA 4 rated	**Use non-certified antennas with the intrinsically safe RF outputs**
Full Bluetooth capability through Bluetooth 4.0 and 5.0	**Track Bluetooth low energy devices in real time**

www.extronics.com | info@extronics.com | +44 (0) 845 277 5000

X128094(1)

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Certification	(Ex) II 3 (3) G Ex ec [ic Gc] nR IIC T6 Gc
	            3 D Ex ec ic 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	Options for PoE /POE+ IEEE802af/at and AC or DC power input
Typical Power consumption	Basic Configuration @ 2.5 W
Enclosure material	Marine grade copper-free aluminium alloy, epoxy powder coated
Ingress protection	IP66 and NEMA 4
Typical weight	8.5 KG.
Dimensions (including connection chamber and mounting points)	293 x 388 x 220 mm (height x width x depth)
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Relative humidity	0 to 95%, non-condensing
Input connections	POE / POE+ Gigabit Ethernet on RJ45 or Weidmuller 8-way wired connector AC or DC power via Phoenix 1829167 socket with **either** Gigabit Ethernet on RJ45 connector or Dual LC fibre connector.
Network Connections	**10/100/1000BASE-T Ethernet on CAT6:** up to 100m **1000BASE-SX Multi mode fibre:** up to 550km, wavelength 850nm **1000BASE-LX Single mode fibre:** up to 20km, wavelength 1310nm **Cellular:** 4G-LTE, Cat 4
Output connection	3 galvanically isolated, intrinsically safe external RF outputs from the X2000 via external N-type RF connectors - 2 additional outputs will be provided if cellular backhaul option is chosen Internal surge arrestors are optional.
Bluetooth	Bluetooth low power chip : 2x nRF52840 Version : Bluetooth Low Energy 4.0/4.1/4.2/5.0 Connections : Up to 40 Tx Power : Configurable 2.5~18.5 dBm (limited by local regulations) Rx Sensitivty : -104.5 dBM Data Rates : up to 2x2 mbps Frequency : 2.400 to 2.483 GHz Antenna Gain : See iANT2xx datasheet for detail
Wi-Fi (802.11 a/b/g/n/ac)	Frequency : 2.4 GHz and 5 GHz - ISM Band Tx Power : 12 to 17 dBm for 2,4 GHz 8 to 15 dBm for 5 GHz Rx Sensitivity : - 95.5 to - 70.5 dBm for 2.4 GHz - 90.5 to - 70.5 dBm for 5 GHz (depending on modulation)

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ORDERING INFORMATION

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Configuration Format - iWAP XN3 - X2000 - [#1]-[#2]-[#3]-[#4] -[#5]

Specify Option [#1] Input Power	PoE/PoE +	PoE
	AC (94-264 VAC)	AC1
	DC (12-36 VDC)	DC1

Specify Option [#2] Incoming Data Connection	Gigabit Ethernet on Cat6a Copper	CO
	Single Mode 1000BASE-LX Fibre with dual LC Connector	SMF
	Multi Mode 1000BASE-SX Fibre with dual LC Connector	MMF

Specify option [#3] Additional Hardware	No Additional Hardware Option requred	N
	MultiTech MTCM Series Cellular LTE Gateway (Europe	MNE
	MultiTech MTCM Series Cellular LTE Gateway (USA)	MNA

Specify option [#4] Surge Protection	Antenna Surge Protection Fitted	S
	No Antenna Surge Protection Fitted	N

Specify option [#5] Cable Entry Threads	2 x M20 on underside of connection chamber	M20
	2 x ½" NPT on underside of connection chamber	NPT

Accessories Selected Common Accesories	iANT2xx Range of rugged simple apparatus antenna	iANT2xx
	(See Individual Datasheets for more information)	
	Simple apparatus assessment of your preferred antenna	L010002
	(Datasheets and constructional information must be provided to Extronics for assessment)	
	316L Stainless Steel Pipe Mounting Bracket Kit	iWAPMB08
	(To suit pipe size 58-63.5mm overall diameter pipe)	
	iWAPXN3 Test Kit	iWAPTK01
	(Used to verify the Ex nR Seals if the nR enclosure is opened for inspection or repair)	
	All accessories are optional and will be priced sepately - Contact Extronics for more information.	

Selected Popular Configurations Common Use Part Numbers	iWAPXN3-X2000-PoE-CO-N-N-M20
	iWAPXN3-X2000-AC1-MMF-N-N-M20
	iWAPXN3-X2000-DC1-CO-MNA-N-M20
	iWAPXN3-X2000-AC1-CO-N-N-M20

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