

iWAP300

Industrial Access Point Enclosure System



- Wireless access point enclosure system
- Fully rugged
- IP66
- 316L Stainless Steel
- Choose equipment from leading WLAN vendors

The iWAP300 was designed to enable wireless deployments in harsh industrial areas, including wet and corrosive environments. Our team of engineers assesses each access point thoroughly to ensure it is suitable for purpose, enabling you to choose from the huge variety of access points on the market from leading vendors like Cisco, Aruba, and many more.

Use leading WLAN vendors

Access points from Cisco, Acksys, and Firetide have already been assessed by our experience engineers as suitable for use in the iWAP300 and further access points can be assessed as needed.

Optional surge arrestor

Protects equipment by providing lightning suppression in outdoor installations.

Optional enclosure heating or cooling

Use the iWAP300 in low or high temperatures. This also assists with anti-condensation.

Rugged, durable design

With IP66 ingress protection and a 316L stainless steel enclosure, the iWAP300 is suitable for a wide variety of industrial locations.

Optional single or multimode fibre optic inputs

Enabling extended Ethernet link distances for better functionality.

Antennas

Designed for use with up to 6 antennas (not included), such as the Extronics iANT2xx range.



Specification

Power supply	Universal 90-264VAC 20-28VDC IEEE802.3af POE			
Maximum power consumption	Without heating or cooling POE 802.3af or 16W for mains or DC power With cooling 21W With heating and cooling 121W			
Enclosure material	316L Stainless Steel			
Ingress protection	IP66			
Weight	Approximately 10kg			
Dimensions	390 x 286 x 161 mm (h x w x d)			
Operating temperature	Dependant on access point chosen, see overleaf <i>Note: If fibre option chosen the minimum ambient temperature is 0°C. If a lower ambient temperature is required heaters MUST be fitted</i>			
Storage temperature	-40°C to 70°C			
Relative humidity	0 to 95%, non-condensing			
Input connections	115V/230VAC input option on screw terminals 24VDC input option on screw terminals 10/100BaseT Ethernet on RJ45 socket and screw terminals 10/100BaseFX Multimode fibre input option on ST connectors 100BaseLX-10 Single mode fibre on SC connectors			
Ethernet link distance	10/100Base T Ethernet on Cat5e: up to 0.1km 10/100BaseFX on Multimode Fibre: Up to 2km 100Base-LX10 on Single mode fibre: up to 10km			
Output connection	Up to 6 RF outputs via external N-type RF connectors. Surge arrestors are optional. Customer is to specify the number of required RF outputs.			
Maximum internal RF loss (between output of access point and external N-type connector)		2.4 GHz	5 GHz	5.8 GHz
	External N-type output	1.40 dB	1.90 dB	2.10 dB
	With surge arrestor	1.55 dB	2.05 dB	2.35 dB



Ordering Information: iWAP300-[#1] -[#2] -[#3] -[#4] -[#5] -[#6] -[#7] -[#8] -[#9]

Specify option [#1] – wireless hardware supply

Hardware supplied by customer* C

Hardware supplied by Extronics E

* Extronics can supply the above wireless network hardware, alternatively you may wish to “free issue” one of the above solutions so that we can factory fit it. (“Free Issue” means to supply and deliver to Extronics HQ at your own cost. Please note that due to the fitting process any warranty on the access point may be made invalid).

Specify option [#2] – wireless hardware type

Acksys WLG-LINK-OEM 26

(No heating/cooling: -20°C to 60°C, with heating/cooling -40°C to 70°C)

Note: Acksys WLG-LINK-OEM is NOT currently compatible with an 802.3af POE input. For option #3 only AC or DC input may be chosen

Firetide 7000 Series MESH Router 30

(No heating/cooling: 0°C to 50°C, with heating/cooling -40°C to 60°C)

Firetide 4500 Series Access Point 43

(No heating/cooling: 0°C to 40°C, with heating/cooling -40°C to 50°C)

Specify option [#3] – power supply

Universal 90-264VAC AC

Note: If AC option is selected, the unit can be powered by either AC supply or POE supply.

If heater option [#7] selected, the unit cannot have a universal voltage, it will be either 115VAC or 230VAC

24V DC DC

IEEE802.3af compliant Power-Over-Ethernet POE

Specify option [#4] – Ethernet connection

10/100BaseT Ethernet on CAT5 copper C

Multimode 10/100BaseFX fibre with ST connector (Note : minimum ambient temperature 0°C without heaters) F

Single mode 100BaseLX-10 fibre with SC connector (Note: minimum ambient temperature 0°C without heaters) S



Specify option [#5] – number of antenna outputs for radio 1

0 off N-type connector	0
1 off N-type connector	1
1 off N-type connector with surge protector	1S
2 off N-type connector	2
2 off N-type connector with surge protector	2S
3 off N-type connector	3
3 off N-type connector with surge protector	3S

Specify option [#6] – number of antenna outputs for radio 2

0 off N-type connector	0
1 off N-type connector	1
1 off N-type connector with surge protector	1S
2 off N-type connector	2
2 off N-type connector with surge protector	2S
3 off N-type connector	3
3 off N-type connector with surge protector	3S

Specify option [#7] – enclosure heating (not compatible with universal 90-264VAC or POE)

No enclosure heating - T4/T5 temperature classification	N
230VAC enclosure heating - T3 temperature classification	H1
115VAC enclosure heating - T3 temperature classification	H2
24VDC enclosure heating - T3 temperature classification	H3

Specify option [#8] – enclosure cooling (not compatible with POE)

No enclosure cooling	N
Enclosure cooling fitted	C

Specify option [#9] – enclosure cable entry

Metal compression cable glands fitted	G
No glands fitted, M20 entries provided for installer to provide own glands or blacking plugs/sockets	N

Accessories:

Pipe mount bracket kit to enable the unit to be fixed to a pipe or rectangular post. (2 kits required for complete fitment)	IWAPMB01
Triple Antenna Bracket Kit for iWAP200, Stainless Steel 316L	IA NTMB05

