



Installation & Operating Manual

iWAP300-A/M/AM



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Document Number **323602** (See Last Page for Revision Details)

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1 Introduction

The iWAP300 Universal Industrial Access Point Enclosure is designed to deploy wireless networks in harsh, wet and corrosive environments. The concept allows installation of equipment from leading WLAN vendors such as Aeroscout, Meru, Symbol, Cisco, Firetide and many others. Each type of Access Point or RF transmitting device is rigorously checked and tested by Extronics to ensure that the vendors equipment is suited. This means that you can effectively use the vendor of your choice when you want to extend your WLAN to your plant areas where protection against the elements is essential.

The Extronics iWAP300 is designed for use with Extronics extensive range of antennas for optimum coverage. Optional features include surge arrestors for lightning suppression in outdoor installations and multimode fibre inputs for the Ethernet, enclosure heater for low temperature and anti-condensation plus the option of plug and socket cable entry instead of cable glands.

To allow ease of installation to the end user the unit may be supplied from 110/230VAC, 24VDC or via IEEE802.3af POE (iWAP300-A only). The unit has an optional Fibre optic link to use the iWAP300 over longer distances.

The unit is housed in a 316L stainless steel enclosure rated to IP66 allowing it to be installed in harsh, wet and corrosive environments.

The iWAP300 supports optional heating and/or fan cooling installed within the enclosure (mains or 24VDC versions only for fans, 24VDC version for only heating and/or fans). The fans and access point/mesh router are set to run simultaneously, if the ambient temperature drops below a certain threshold the fans and AP/mesh router will shut down. The heaters may be independently configured to shut off above set temperature thresholds. The heaters are normally factory configured to shut off above 20°C, whilst the power supply low temperature cut-off is normally set at -5 °C. These values can be fixed by Extronics or altered by the user via potentiometers located on the protection board.

The iWAP300 can also be ordered to have both an access point and mesh router in the same enclosure (iWAP300-AM). This reduces installation time and costs by using one enclosure and less cabling in areas of the wireless infrastructure where a mesh router and access point are required to be located in the same proximity. If a full mesh network is not required a second access point can be configured to create a wireless bridge. Contact Extronics to discuss specific applications.

There are two variants to the iWAP300 protection board; a mains variant and a 24VDC variant. The variant required should be specified when ordering; both mains and 24VDC versions can also be used when powering a single AP via POE. Note that only the iWAP300-A can be powered using POE and only one power supply should be applied at any one time, i.e. mains only or 24VDC only or POE only. If two AP's or an AP and mesh router are installed the unit must be powered via the mains or 24VDC supply.

2 Safety Information and Notes

2.1 Storage of this Manual

Keep this user manual safe and in the vicinity of the device. All persons who have to work on or with the device should be advised on where the manual is stored.

2.2 List of Notes

The notes supplied in this chapter provide information on the following.

- Danger / Warning.
 - Possible hazard to life or health.
- Caution
 - Possible damage to property.
- Important
 - Possible damage to enclosure, device or associated equipment.
- Information
 - Notes on the optimum use of the device

Warning!	The iWAP300 must not be operated in the hazardous area.
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Important	The technical data indicated on the iWAP enclosure must be observed.
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Important	Changes in the design and modifications to the equipment are not permitted. This includes adding or removing heaters/fans which were installed by Extronics Ltd. Changing the pre installed Access points and/or MESH routers is NOT permitted.
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Important	The iWAP300 shall be operated as intended and only in an undamaged condition.
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Caution	When powering the iWAP300 via POE do not apply an external power supply to the protection board.
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Caution	Never power the iWAP300 (if fans and/or heaters are installed) via POE.
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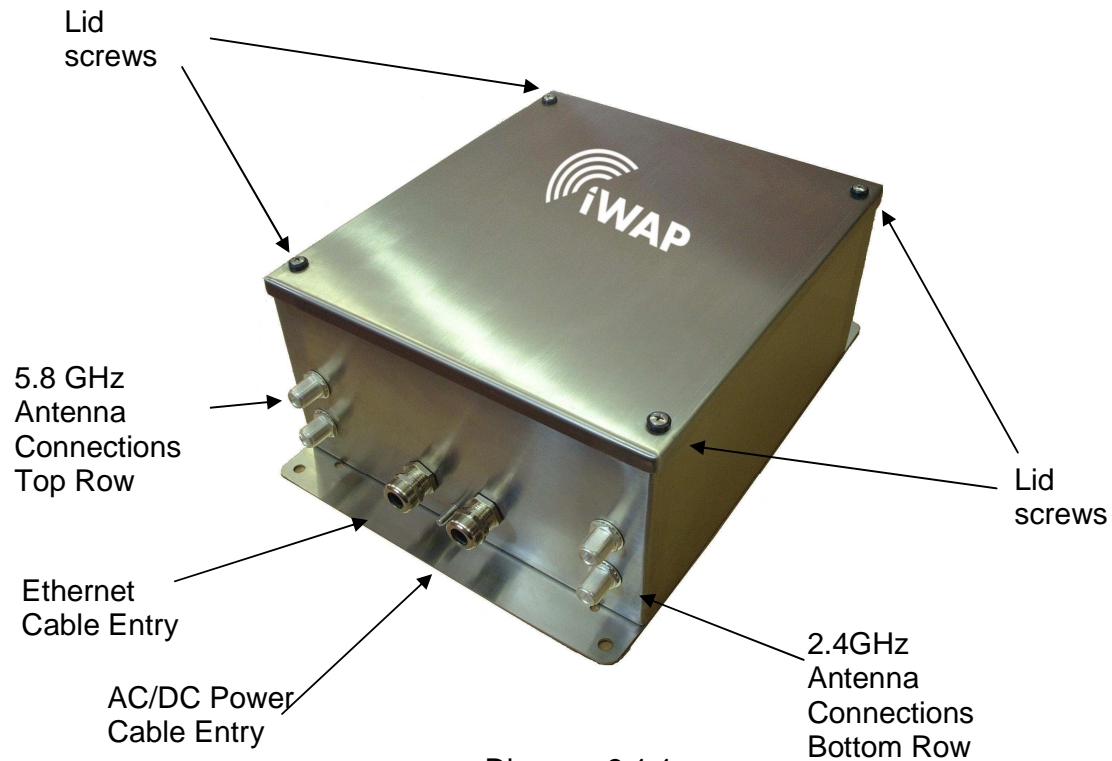
3 Installation and Setting-to-Work

3.1 Installation

The iWAP300 is simple to install and can be secured directly to suitable surface using the mounting holes on the Enclosure.

3.1.1 Removing the cover

Unscrew the four screws and remove the enclosure lid.



3.1.2 Fitting the cables

Depending on the configuration of the iWAP300, the connections for power and communication will need to be terminated into the enclosure via the correct cable entries shown in Diagram 3.1.1.

The cables used to connect the power and/or Ethernet connection to the PCB screw terminals must conform to the following specification;

All wires should be stripped and, if stranded cable is used, should be crimped using 2.5mm bootlace ferrules. The stripped/crimped wires should then be placed into the corresponding screw terminal and securely screwed in place.

If using solid core cable;

Minimum cross section of cable = 0.2mm²

Maximum cross section of cable = 2.5mm²

If using crimped stranded core cable;

Minimum cross section of cable = 0.25mm²

Maximum cross section of cable = 1.5mm²

IMPORTANT!	All cables should be connected to the iWAP300 via the correct cable gland, fitted by a competent person.
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IMPORTANT!	Changes in the design and modifications to the equipment are not permitted. This includes adding heaters/fans which are not installed at the factory.
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Important	The installer MUST ensure that that all cables have adequate mechanical protection to avoid damage to the wires.
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3.1.3 Mains Variant Cable Installation

Diagram 3.1.2 shows the connectors on the mains variant of the iWAP300. Table 3.1.3 describes the pin out connection required for operation. There are two blocks of screw terminals and one RJ45 connector. The Ethernet input screw terminals are wired in parallel with the RJ45 connector. Do not make an Ethernet connection to the RJ45 connector and the screw terminals at the same time, the installer should use only one of these connectors.

Follow the instructions in section 3.1.2 to correctly prepare the cables and feed them through the correct cable gland. Follow table 3.1.3 to connect the correct cable to the correct screw terminal. If using the RJ45 connector instead of the screw terminals simply connect the Cat-5 cable to the connector and ensure the cable is securely in place.

Caution	Only ever make one Ethernet cable to either the RJ45 connector or Ethernet screw terminals – NEVER both.
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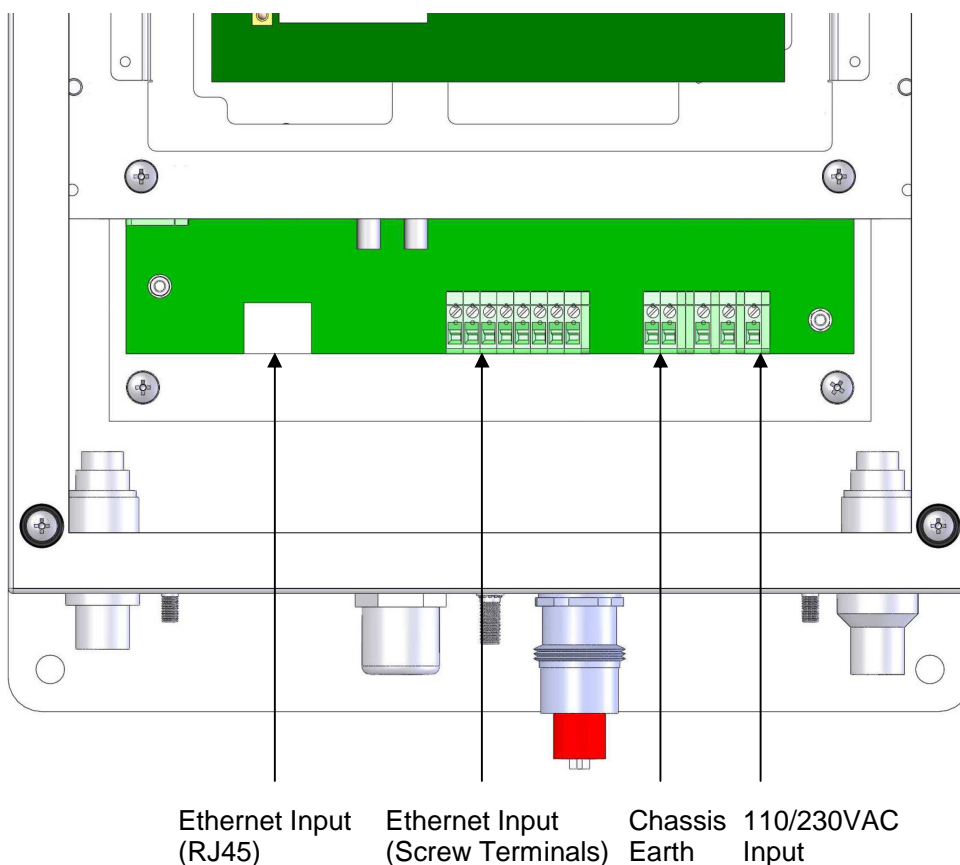


Diagram 3.1.2 – Mains Variant iWAP300 PCB

Connector	Description	Notes
110/230VAC input	These screw terminals allow the connection of a 110/230VAC power supply. Pinouts are; 1 = Live, 2 = Neutral, 3 = Earth.	
Chassis Earth	There are two terminals which allow a connection to earth. When the iWAP300 is delivered one of these terminals will be connected to the enclosure. The second earth terminal spare.	
Ethernet Input (Terminals)	Connect a Cat-5 cable to these screw terminals for the connection of the Ethernet input. The pinouts on this terminal correspond with the standard cat-5 TIA/EIA-568-B T568B wiring methods. If powering via POE this is where the power supply will come from.	Only one Ethernet input should be made, only use either the terminals or RJ45 connector NOT both.
Ethernet Input (RJ45)	This allows the connection of a standard Cat-5 cable with plugs.	Only one Ethernet input should be made, only use either the terminals or RJ45 connector NOT both.

Table 3.1.3 – iWAP300 Mains Variant Pinouts

Important Only connectors 110/230VAC Input, Chassis Earth and Ethernet Input (Terminals or RJ45) are user serviceable. The end user should not connect, disconnect or alter the wiring on any other connector!

Caution When powering the iWAP300-A via POE do not apply an external power supply to the protection board.

Caution Never power the iWAP300-M, iWAP300-AM, or iWAP300-A (if fans and/or heaters are installed) via POE.

3.1.4 Fibre Ethernet Input

Important When connecting the access point via a fibre connection do not use the any of the two Ethernet inputs of connectors.

To obtain greater wired link distances the iWAP300 can be shipped with an optional fibre module. The fibre module will be connected directly to the access point, the user should attach the fibre cable directly to the fibre module using a multimode fibre cable on an ST connector.

3.1.5 24VDC Variant Cable Installation

Diagram 3.1.3 shows the connectors on the mains variant of the iWAP300. Table 3.1.3 describes the pin out connection required for operation. There are two blocks of screw terminals and one RJ45 connector. The Ethernet input screw terminals are wired in parallel with the RJ45 connector. Do not make an Ethernet connection to the RJ45 connector and the screw terminals at the same time, the installer should use only one of these connectors.

Follow the instructions in section 3.1.2 to correctly prepare the cables and feed them through the correct cable gland. Follow table 3.1.3 to connect the correct cable to the correct screw terminal. If using the RJ45 connector instead of the screw terminals simply connect the Cat-5 cable to the connector and ensure the cable is securely in place.

Caution Only ever connect one Ethernet cable to either the RJ45 connector or Ethernet screw terminals.

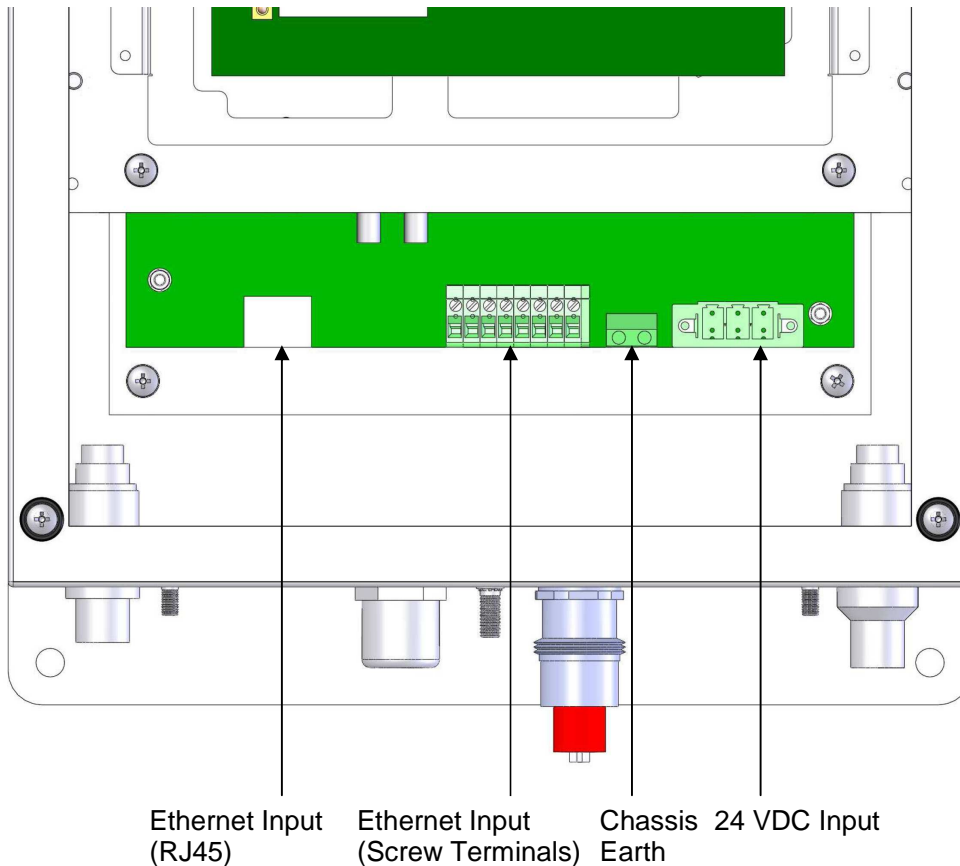


Diagram 3.1.3 – 24V Variant iWAP300 PCB

Connector	Description	Notes
24VDC input	These screw terminals allow the connection of a 24VDC power supply. Pinouts are; 1 = +24V, 2 = 0V/GND, 3 = Earth/cable outer sheath.	
Chassis Earth	There are two terminals which allow a connection to earth. When the iWAP300 is delivered from Extronics' factory one of these terminals will be connected to the enclosure. The second earth terminal spare.	
Ethernet Input (Terminals)	Connect a Cat-5 cable to these screw terminals for the connection of the Ethernet input. The pinouts on this terminal correspond with the standard Cat-5 TIA/EIA-568-B T568B wiring methods.	Only one Ethernet input should be made, only use either the terminals or RJ45 connector NOT both.
Ethernet Input (RJ45)	This allows the connection of a standard Cat-5 cable with plugs.	Only one Ethernet input should be made, only use either the terminals or RJ45 connector NOT both.

Table 3.1.3 – iWAP300 24VDC Variant Pinouts

Important Only connectors 24VDC Input, Chassis Earth and Ethernet Input (Terminals or RJ45) are user serviceable. The end user should not connect, disconnect or alter the wiring on any other connector!

Caution When powering the iWAP300-A via POE do not apply an external power supply to the protection board.

Caution Never power the iWAP300-M, iWAP300-AM, or iWAP300-A (if fans and/or heaters are installed) via POE.

3.1.6 Fibre Ethernet Input

Important When connecting the access point via a fibre connection do not use any of the two Ethernet inputs of connectors .

To obtain greater wired link distances the iWAP300 can be shipped with an optional fibre module. The fibre module will be connected directly to the access point, the user should attach the fibre cable directly to the fibre module using a multimode fibre cable on an ST connector.

3.1.7 Thermostat Control

The thermostats are currently not user configurable. The default configuration is for the heaters to be turned on when the internal ambient temperature is between -20°C and $+10^{\circ}\text{C}$ and for the fans/wireless hardware to be on above 1.5°C

3.1.8 Fitting the antennas

- Connect the antennas to the correct the N type connector on the outside of the enclosure (see Diagram 3.1.1). Make sure to only connect antennas which are intended to be used at the frequency required (i.e. either 2.4GHz or 5.8GHz antennas).
- Depending on the options ordered some of the N-types may have been replaced with blanking plugs or surge arrestors.
- If the version ordered contains both a mesh router and access point; the mesh router and access point should be setup in software to run at 5.8GHz and 2.4GHz respectively. The iWAP300 will be wired in this way when delivered.
- The iWAP300 may be used with any antenna. It is recommended to use the Extronics iANT200 series of antennas as these have already been pre-approved for use with the iWAP300.

IMPORTANT! Do not exceed the Effective Isotropic Radiated Power (EIRP) for the country/region of operation. Also when using the iANT100/101 do not exceed the maximum EIRP for the gas group the iWAP300 is located in according to the standard BS 6656:2002 table 2.

3.1.9 Mounting The Antennas

Extronics can supply two sizes of antenna brackets which can be mounted either on the top or bottom of the enclosure. The bracket sizes offered are 365mm and 680mm in length. The brackets allow the mounting of iANT200 antennas at the far extremities of the bracket.

Bespoke mounting brackets can also be designed for most applications. Please contact Extronics for more information.

The iWAP300-A and iWAP300-M offers the feature of dual radio to improve data integrity and network reliability, meaning up to two antennas can be connected to each network node. Each node can however, also run in single antenna mode. If the iWAP300-AM is used, the access point and mesh router will need to be setup in software to operate on different frequencies (usually 2.4GHz for the A and 5.8GHz for the M) this is in order to reduce possible noise and network interference.

With the iWAP300-AM there is the possibility of having up to four antennas connected to the enclosure (i.e. if both the A and M are using dual radio). The user can decide to mount two antennas - one antenna connecting to each access point/MESH router. Or alternatively four antennas can be connected – two antennas connected per network node. Four antennas can be mounted to the enclosure by mounting two brackets at the top and bottom of the enclosure. Diagram 3.1.5 below shows two methods of connecting the antennas to the enclosure or the iWAP300-AM.

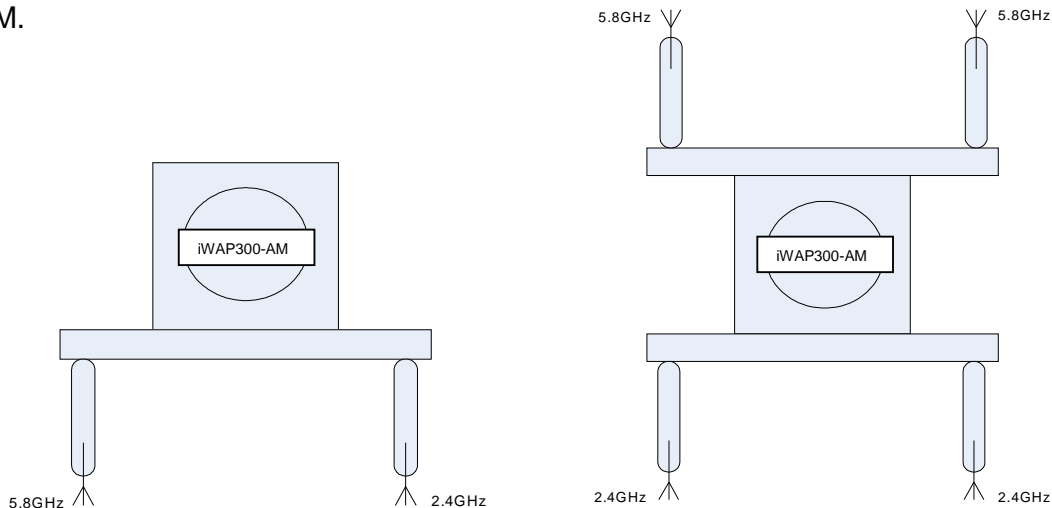


Figure 3.1.5 – Possible antenna mounting options for iWAP300-AM

3.1.10 Setting to work

- Once all cables are connected correctly, refit the enclosure lid using the four screws previously removed. Use a torque screwdriver set to 2.5 Nm. Do not over tighten screws.
- Refer to the original manufacturers instructions for a detailed information on setting the network to work correctly (iWAP300-A utilises the Meru AP150, iWAP300-M utilises the Firetide Hotport 6102)

Note!	Ensure the lid is secure, correct cable glands are fitted and the unit device correctly wired and earthed for the particular application before applying power
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Note!	Ensure that the lid gasket is clean and undamaged before fitting the lid.
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Figure 3.1.6 shows a possible setup for an iWAP300 network and how an iWAP300-AM can be used. The iWAP300-AM is used to connect a MESH network, a wireless access point and also connects a server to the rest of the network.

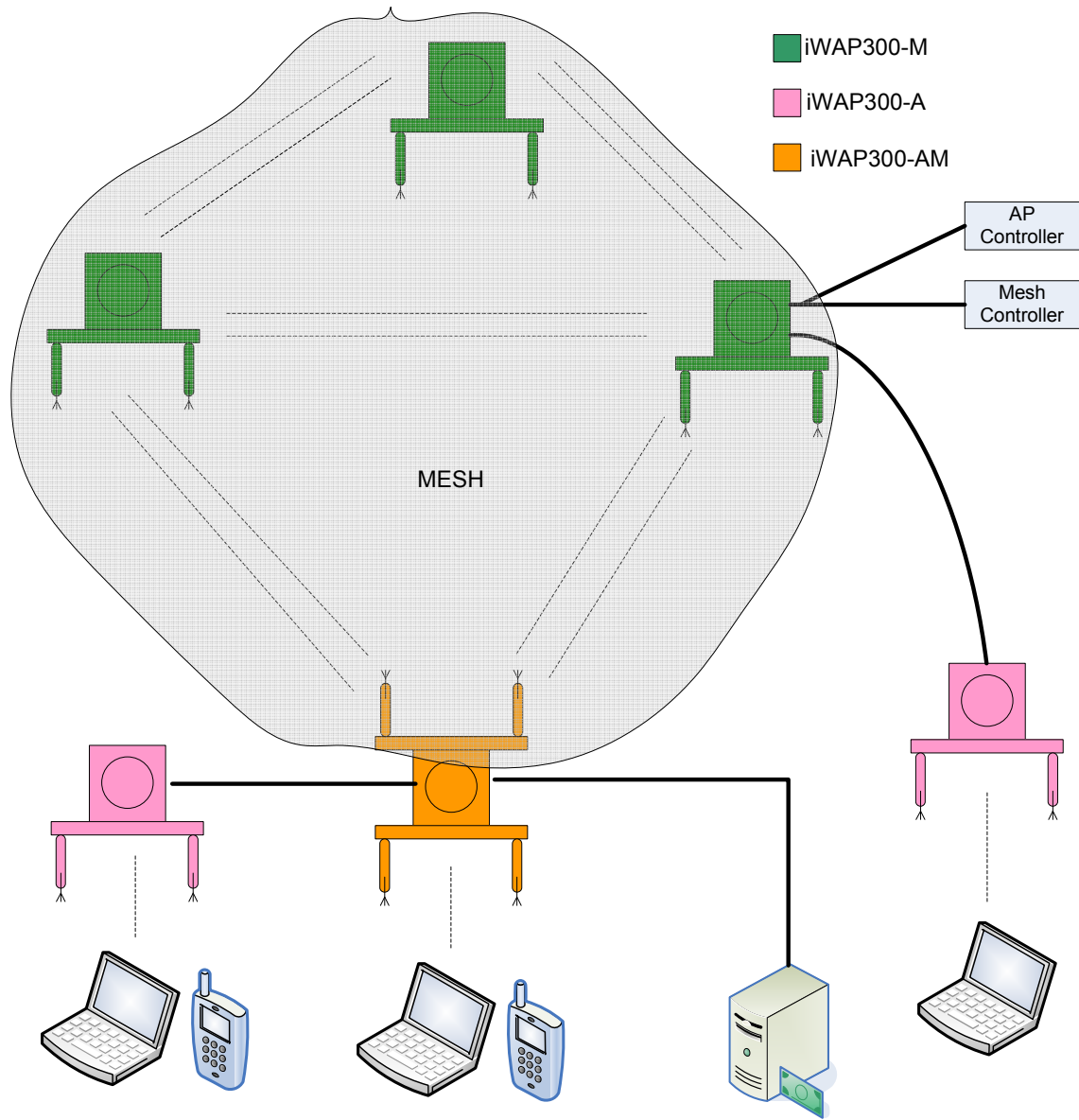


Figure 3.1.6 – Possible iWAP300 network

4 Intended Purpose Usage

Important Before setting the units to work read the technical documentation carefully.

Important The latest version of the technical documentation or the corresponding technical supplements is valid in each case.

The iWAP300 is built using modern components and is extremely reliable in operation; however it must only be used for its intended purpose. Please note that the intended purpose also includes compliance with the instructions issued by the manufacturer for installation, setting up and service.

Any other use is regarded as conflicting with the intended purpose. The manufacturer is not liable for any subsequent damage resulting from such inadmissible use. The user bears the sole risk in such cases.

4.1 Transportation and Storage

All iWAP300 devices must be so transported and stored that they are not subjected to any excessive mechanical stresses.

4.2 Authorized Persons

Only persons trained for the purpose are authorized to handle the iWAP300; they must be familiar with the unit and must be aware of the regulation and provisions required for correct installation as well as the relevant accident prevention regulations.

4.3 Cleaning and Maintenance

The iWAP300 and all its components require no maintenance and are self-monitoring. All work on the iWAP300 by personnel who are not expressly qualified for such activities will cause the guarantee to become void.

4.4 Safety Precautions

Important For the installation, maintenance and cleaning of the units, it is absolutely necessary to observe the applicable regulations as well as the Accident Prevention Regulations.

4.5 Cleaning and Maintenance Intervals

The cleaning intervals depend on the environment where the system is installed.

4.6 Aggressive substances and environments

The iWAP300 is not designed to come into contact with aggressive substances or environments, please be aware that additional protection may be required.

4.7 Exposure to external stresses

The iWAP300 is not designed to be subjected to excessive stresses e.g. vibration, heat, impact. Additional protection is required to protect against these external stresses.

The iWAP300 will require additional protection if it is installed in a location where it may be subjected to damage.

5 Technical Data

5.1 Specification

5.1.1 iWAP300-A

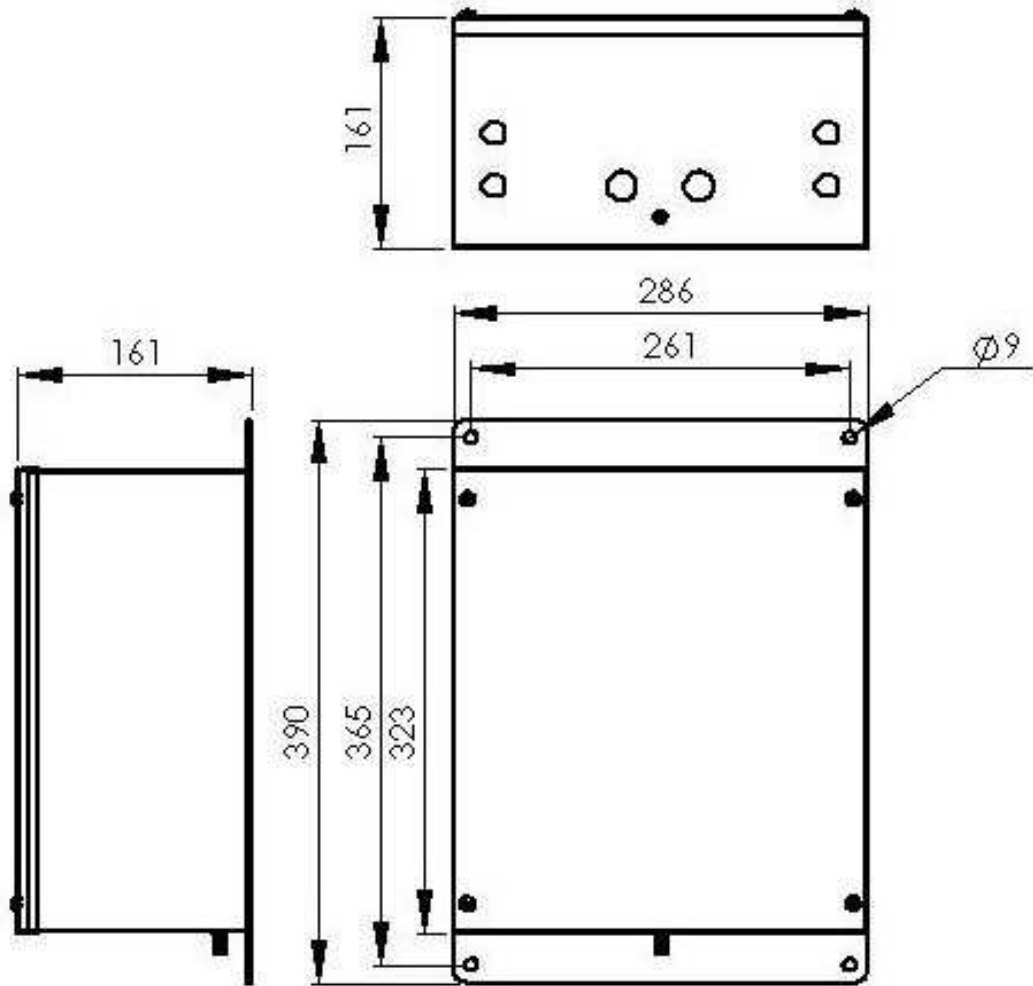
Power Supply	Universal 90-264VAC, 20-28VDC or IEEE802.3af POE
Maximum Power Consumption	Without heating or cooling 16W With cooling 21W With heating and cooling 121W
Enclosure Material	316L Stainless Steel
Ingress Protection	IP66
Weight	Approximately 10 Kg
Dimensions	390 x 286 x 300 mm (h x w x d)
Environmental	Operating temperature: Without heating or cooling -20°C to 55°C With cooling -20°C to 70°C With heating and cooling -40°C to 70°C Storage temperature; -10°C to 70°C Relative humidity; 0 to 95%, non condensing
Input Connections	10/100BaseT Ethernet on RJ45 socket and screw terminals 115V/230VAC input option on screw terminals 24VDC input option on screw terminals Multimode fibre input option on ST connectors Note that connectors may be specified as an option in the ordering data
Output Connections	Dual energy-limited external RF outputs via N-type RF connectors with optional lightning arrestors
Security & Encryption	MAC filtering, WEP keys of 40, 64 or 128 bits, WPA, WPA2, TKIP, AES, VPN pass-through, Captive portal for guest access.
Wireless Specifications	Two Radios—IEEE 802.11a & IEEE 802.11b/g
Frequency Ranges	2.40-2.50 GHz, channels 1-14 5.180-5.240 GHz, 8 channels (34, 36, 38, 40, 42, 44, 46, 48) 5.280-5.320 GHz, 4 channels (52, 56, 60 and 64) 5.745-8.825, 5 channels (149, 153, 157, 161 and 165) Note: All channel configurations are country dependent
Receive Sensitivity (typical)	802.11a; -70dBm at 54 Mbps, -86 dBm at 6 Mbps 802.11b; -85 at 11 Mbps, -93 dBm at 1 Mbps 802.11g; -73 dBm at 54Mbps, -85 dBm at 6 Mbps
Transmit Power	+2dBm (1.5mW) to +20dBm (100mw) for 802.11b/g, +2dBm (1.5mW) to +16dBm (40mW) for 802.11a, variable in 1dBm increments
Antennas	Any suitable antenna may be used (e.g. Extronics iANT200 series)

5.1.2 iWAP300-M

Power Supply	Universal 90-264VAC, 20-28VDC or IEEE802.3af POE
Maximum Power Consumption	Without heating or cooling 16W With cooling 21W With heating and cooling 121W
Enclosure Material	316L Stainless Steel
Ingress Protection	IP66
Weight	Approximately 10 Kg
Dimensions	390 x 286 x 300 mm (h x w x d)
Environmental	Operating temperature: Without heating or cooling -10°C to 50°C With cooling -10°C to 60°C With heating and cooling -40°C to 60°C Storage temperature; -10°C to 70°C Relative humidity; 0 to 95%, non condensing
Input Connections	10/100BaseT Ethernet on RJ45 socket and screw terminals 115V/230VAC input option on screw terminals 24VDC input option on screw terminals Multimode fibre input option on ST connectors Note that connectors may be specified as an option in the ordering data
Output Connections	Dual energy-limited external RF outputs via N-type RF connectors with optional lightning arrestors
Security & Encryption	MAC filtering, WEP keys of 40, 64 or 128 bits, WPA, WPA2, TKIP, AES, VPN pass-through, Captive portal for guest access.
Wireless Specifications	Two Radios—IEEE 802.11a & IEEE 802.11b/g
Frequency Ranges	2.40-2.50 GHz, channels 1-14 5.180-5.240 GHz, 8 channels (34, 36, 38, 40, 42, 44, 46, 48) 5.280-5.320 GHz, 4 channels (52, 56, 60 and 64) 5.745-8.825, 5 channels (149, 153, 157, 161 and 165) Note: All channel configurations are country dependent
Receive Sensitivity (typical)	802.11a; -70dBm at 54 Mbps, -86 dBm at 6 Mbps 802.11b; -85 at 11 Mbps, -93 dBm at 1 Mbps 802.11g; -73 dBm at 54Mbps, -85 dBm at 6 Mbps
Transmit Power	+2dBm (1.5mW) to +20dBm (100mw) for 802.11b/g, +2dBm (1.5mW) to +16dBm (40mW) for 802.11a, variable in 1dBm increments
Antennas	To be used with one or two intrinsically safe antennas (not included) e.g. Extronics iANT200 series or any standard antenna conforming to the conditions of safe use in the Ex certificate
ATEX Certification	ATEX II 3 G Ex nA nL IIC T3 (-40°C≤Ta≤+60°C) T4 (-20°C≤Ta≤+60°C) T5 (-20°C≤Ta≤+30°C) ATEX II 2D Ex tD A21 IP66 T80°C (-40°C≤Ta≤+60°C)

See iWAP102-A and iWAP102-M for a more detailed description of each unit operating specification

5.2 Enclosure Dimensions



6 Type Codes

6.1 iWAP300-A

iWAP300-A - Industrial WiFi Access Point

iWAP300-A-[#4]-[#5]-[#6]-[#8]-[#9]-[#10]

Specify option [#4] - Power Supply

Universal 90-264VAC (If heater option [#8] selected the unit is not universal voltage, either 115VAC or 230VAC)	AC
24V DC	DC
IEEE802.3af compliant Power-Over-Ethernet	POE

Specify option [#5] - Ethernet Connection

10/100BaseT Ethernet on CAT5 copper	C
Multimode 10/100BaseFX fibre with ST connector	F

Specify option [#6] - 2 x Antenna Lightning Protection

No Surge Arrestors	N
Surge Arrestors Fitted	S

Specify option [#8] - Enclosure Heating (not compatible with universal 90-264VAC or POE supplies)

No enclosure heating	N
230VAC enclosure heating	H1
115VAC enclosure heating	H2
24VDC enclosure heating	H3

Specify option [#9] - Enclosure Cable Entry

Cable glands fitted	G
Quick Release Sockets fitted (Not for fibre optic input)	S

Specify option [#10] - Enclosure cooling (not compatible with POE supply)

No enclosure cooling	N
Enclosure cooling fitted	C

6.2 iWAP300-M

iWAP300-M - Industrial Mesh Router **iWAP300-M-[#3]-[#4]-[#5]-[#7]-[#8]-[#9]-[#10]-[#11]-[#12]**

Specify option [#3] - Number of Radios

Single radio backhaul	1
Dual radio backhaul	2
No backhaul	N

Specify option [#4] - Power Supply

Universal 90-264VAC (If heater option [#8] selected the unit is not universal voltage, either 115VAC or 230VAC)	AC
24V DC	DC

Specify option [#5] - Ethernet Connection

10/100BaseT Ethernet on CAT5 copper	C
Multimode 10/100BaseFX fibre with ST connector	F

Specify option [#7] - 2 x Antenna Lightning Protection For Option [#3]

No Surge Arrestors	N
Surge Arrestors Fitted	S

Specify option [#8] - Enclosure Heating (not compatible with universal 90-264VAC supply)

No enclosure heating	N
230VAC enclosure heating	H1
115VAC enclosure heating	H2
24VDC enclosure heating	H3

Specify option [#9] - Enclosure Cable Entry

Cable glands fitted	G
Quick Release Sockets fitted (Not for fibre optic input)	S

Specify option [#10] - Enclosure cooling (not compatible with POE supply)

No enclosure cooling	N
Enclosure cooling fitted	C

Specify option [#11] - RS232/RS485/RS442 interface

No RS232/RS485/RS422 interface fitted	N
1 x RS232/RS485/RS422 interface fitted	1
2 x RS232/RS485/RS422 interfaces fitted	2

Specify option [#12] - Dual IEEE802.3af POE outputs (not compatible with 24VDC or POE supplies)

No POE outputs	N
Two POE outputs fitted	C

6.3 iWAP300-AM

iWAP300-AM - Zone 2 WiFi Access Point	iWAP300-A-[#3]-[#4]-[#5]-[#6]-[#8]-[#9]-[#10]-[#11]
Specify option [#3] - Configuration	
1 x Access Point, 1 x MESH Router	C1
2 x Access Point	C2
Specify option [#4] - Power Supply	
Universal 90-264VAC (If heater option [#8] selected the unit is not universal voltage, either 115VAC or 230VAC)	AC
24V DC	DC
Specify option [#5] - Ethernet Connection	
10/100BaseT Ethernet on CAT5 copper	C
Multimode 10/100BaseFX fibre with ST connector	F
Specify option [#6] - 2 x Antenna Lightning Protection	
No Surge Arrestors	N
Surge Arrestors Fitted	S
Specify option [#8] - Enclosure Heating (not compatible with universal 90-264VAC)	
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 [#9] - Enclosure Cable Entry	
Cable glands fitted	G
Quick Release Sockets fitted (Not for fibre optic input)	S
Specify option [#10] - Enclosure cooling	
No enclosure cooling	N
Enclosure cooling fitted	C

7 Manual Revision

Revision	Description	Date	By
01	Initial Release	13/11/2008	JE