



Bridgepyont 2.4 GHz

17 dBi-Flachantenne mit Routerleergehäuse Best.Nr. 18790.24
Outdoor housing for AP with 17 dBi 2.4G antenna



Bridgepyont ist eine 2.4GHz WLAN Antenne mit einem Leergehäuse. Dieses Gehäuse eignet sich hervorragend zum Einbau eines Accesspoints oder Routers. Durch den kurzen Kabelanschluß zur Antenne ist die Dämpfung minimal. Der Anschluß nach Aussen erfolgt über ein herkömmliches Ethernetkabel mit RJ-45 Steckern, die Gehäusedurchführung für das Kabel ist (ebenso wie das Gehäuse selbst) wassergeschützt (IP 65). So ist die Elektronik immer im bestens verpackt.

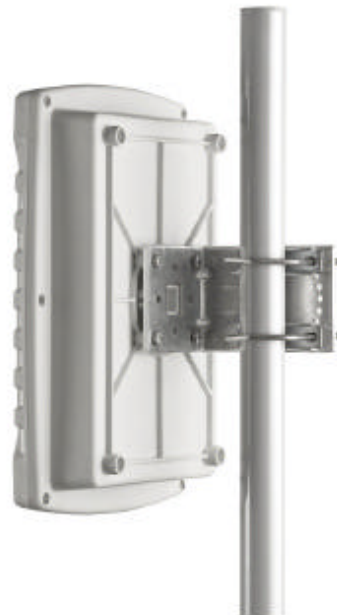
Bridgepyont eignet sich somit ideal zum Aufbau von Hotspots oder Punkt-zu-Punkt Lösungen bei denen die Kabellänge zu einer externen Antenne sonst zu groß wäre. Das Innenmaß des Gehäuses reicht für die üblichen Platinen von Accesspoints und Routern völlig aus. Die Stromversorgung des eingebauten Gerätes sollte über Power-over-Ethernet (POE) erfolgen. An der Antenne ist ein ca. 12cm langes Kabel mit SMA-Buchse vorbereitet, andere Stecker (z.B. RP-SMA, MC-Card usw.) sind auf Anfrage möglich. Die mitgelieferte rostfreie Halterung erlaubt freies Neigen und Schwenken des Gehäuses.

Bridgepyont is a flat panel wireless LAN antenna (2.4GHz) with an empty housing. This box is ideally suited for integration of an accesspoint our WiFi router. Due to the short cable length to the antenna the attenuation is minimal. The external connection is done with an RJ45 ethernet cable, the feed through is protected against water (IP65), as well as the box itself of course. So the electronics are always perfectly protected.

Bridgepyont is an ideal solution for the setup of WiFi hotspots or point-to-point links, where the required cable length to an external antenna is too long. The inner size of the box is sufficient to install mostly any AP or router. The power supply is done with power-over-ethernet (POE, adaptor not included). The antenna comes with a 12cm cable with SMA connector, other connectors available on request.

Stainless mounting hardware is included for mast or wall mounting, allowing pan and tilt.

Each Bridgepyont includes an enclosure with integrated antenna and 6 movable posts with self tapping screws and double-sided tape to mount your electronics.



Features:

- Weatherproof box for outdoor use.
- Integrated 17 dBi antenna
- Insignificant RF cable losses
- Aesthetically pleasing

WiMo Antennen und Elektronik GmbH

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Specifications

Electrical:

Gain (max)	17.5 dBi (+0.5 dB)
Gain (min over the band)	17.0 dBi (+0.5 dB)
Frequency	2.4 – 2.5 GHz
VSWR	< 2.0:1
Feed power handling	10 W
E-plane 3 dB beamwidth	18.5° (± 5°)
H-plane 3 dB beamwidth	32.0° (± 5°)
Nominal input impedance	50 Ohm
Polarisation	Linear (Vertical or Horizontal)

material	ABS injection moulded plastic
part no.	18790.24

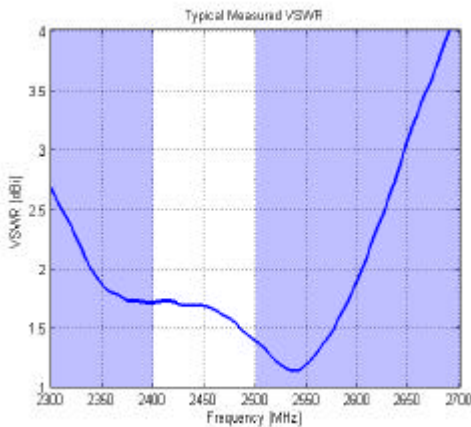
Environmental:

Wind Loading	160 km/h
Temperature Range	- 20° C to +70° C
Shock	40G at 10 msec
Thermal Shock	- 20° C to +70° C : 10 cycles
Water Ingress Rating	IP65 (NEMA 4X)

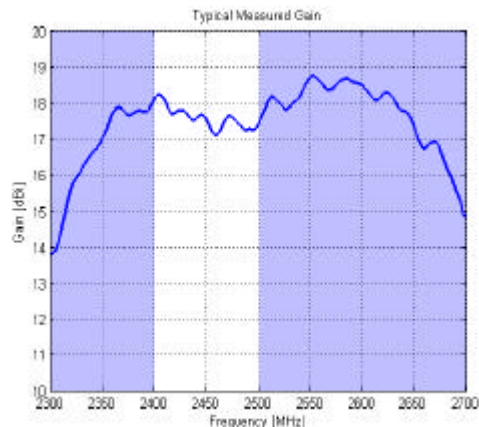
Mechanical:

Dimensions (l x w x d)	364 mm x 258 mm x 98 mm
Dimension of electronic compartment (l x w x d)	200 mm x 300 mm x 40 mm
Weight	2.35 kg
Clamp	40-50 mm pole
Tilt angle	30° (± 1°) 25° (± 5°)
Mounting	Stainless steel brackets for up to 50 mm poles

VSWR and Gain Pattern:

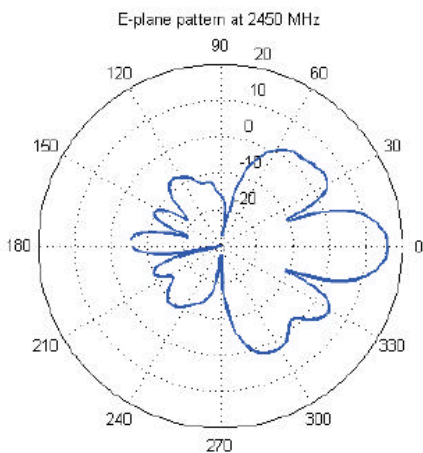


VSWR

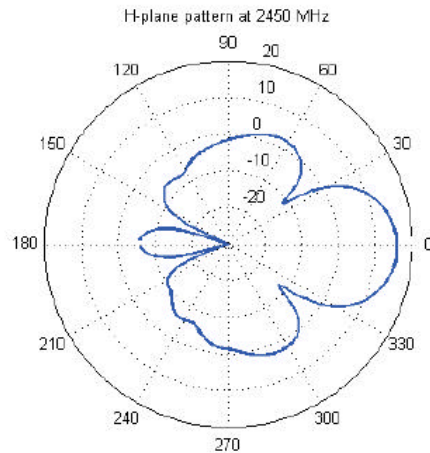


Gain

Radiation Patterns



E-Plane



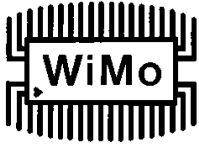
H-Plane

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packliste / parts list

Item	Description	Quantity
1.	Bridgepyont enclosure with integrated 16dBi antenna	1
2.	Stand-off pillars (Inside enclosure)	6
3.	M6 x 16mm Bolt – SS (Inside enclosure)	4
4.	M6 external star washer – SS (Inside enclosure)	4
5.	No.6 x 9.5mm - Self Tapping Screws – Galv. (Inside enclosure)	6
6.	M4 - Washers, Flat SS (Inside enclosure)	6
8.	M16 Gland with nut (attached to enclosure)	1
9.	Universal Bracket (Aluminium)	1
10.	M6 x 90mm U-Bolt SS	2
11.	Econo bracket	2
12.	M6 Flat Washer SS	4
13.	M6 Nut SS	4

Installation Instructions

Installing Electronics

- Unscrew the back of the enclosure and carefully lift off the lid containing the integrated antenna (refer to figure 1).
- Use the provided screws and washers (items 5 and 6) to secure the stand-off pillars to the electronics you wish to install. Be sure that the height of electronics and pillars does not exceed 40mm (refer to figure 2).
- Peel off the adhesive backing paper from the base of the pillars and secure the pillars to the back of the lid (refer to figure 3). Ensure that the electronics is located such that the antenna cable can be connected easily.
- Connect the antenna to the electronics either directly with the SMA(f) connector or by means of an adaptor cable (not provided) as necessary (refer to figure 4).



Figure 1. Unscrew enclosure

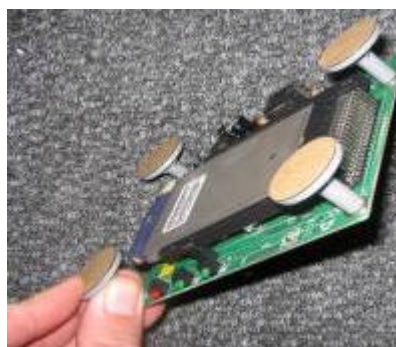


Figure 2. Secure the stand-off pillars



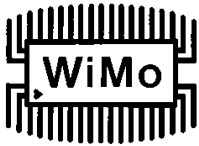
Figure 3. Attach electronics to back of lid and connect the antenna

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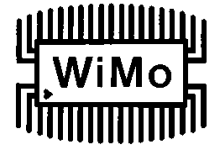
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Installing CAT-5 cable

- The enclosure is provided with a watertight gland that allows the installation of CAT-5 cable (not provided) as necessary.
- Insert one end of the desired length of CAT-5 cable through the gland and into the enclosure with the locking nut loosened.
- Ensure a sufficient length of cable is available in the enclosure to allow connection to the electronics as necessary before tightening the locking nut on the gland to secure and water seal the cable. (Hint: allow enough cable inside the enclosure to facilitate maintenance and replacement of electronics in future).
- Using a crimping tool, secure the appropriate connector to the CAT-5 cable inside the enclosure and connect to the electronics.
- Power over ethernet (POE) can be sent through the CAT-5 cable using the appropriate injector and DC supply (both not provided) for the chosen electronics.



Figure 5. Insert cable through gland



Figure 6. Secure connector to the cable



Figure 7. Connect to electronics

Attaching to mast

- The enclosure can be mounted for either vertical or horizontal polarisation. Refer to polarisation sticker on the back of the enclosure.
- Attach the L bracket to the antenna by means of the four M6 x 16mm bolts provided. The figure 8 illustrates this for vertical polarisation.
- Attach the enclosure to a mast (diameter 40-50mm) using the Econo-bracket assembly as shown in figure 8.
- The Econo-bracket can be mounted through different holes to achieve the desired tilt angle of the antenna. (see figure 9).

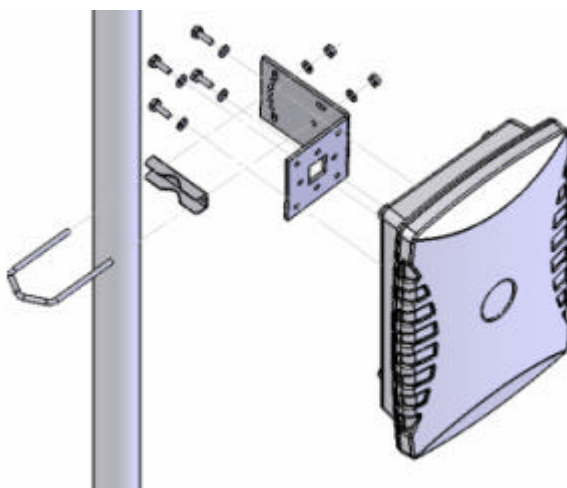


Figure 8. Mast mounting

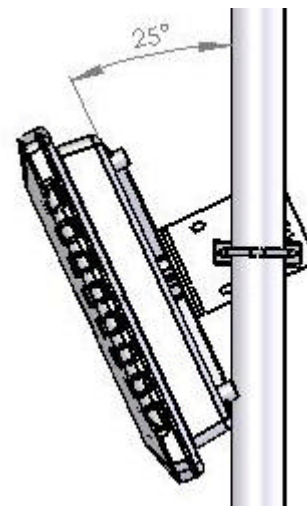


Figure 9. Setting tilt angle

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