

# Xbeam A EX

## Ex Certified Wireless Antenna



The Xbeam A EX is an ATEX and IECEx approved rf antenna for creating wireless networks and wireless telemetry systems in hazardous area. The antenna is optimized for use in steel and concrete structure environments where multipath effects and reflections are present.

The Xbeam A EX is a preferred solution where the access point can be placed in safe zone or safe area and where cable length does not exceed 30 meters. For cable lengths over 30 meters or for lossless coverage, we recommend our EX-AP-A or Xpoint series of access points.

The antenna must be mounted on the belonging bracket and the bracket has to be connected to earth. The antenna is constructed with permanently connected unterminated cable that must be properly protected. The connection must be carried out in an appropriate certified Ex e or Ex d enclosure or in safe area. Additional clamping of cable shall be installed to ensure that pulling and twisting is not transmitted to the terminations inside the antenna.

The antenna can be utilized in:

- WLAN
- WIFI
- BLUETOOTH
- ZIGBEE
- other 2.4 GHz and 5 GHz applications

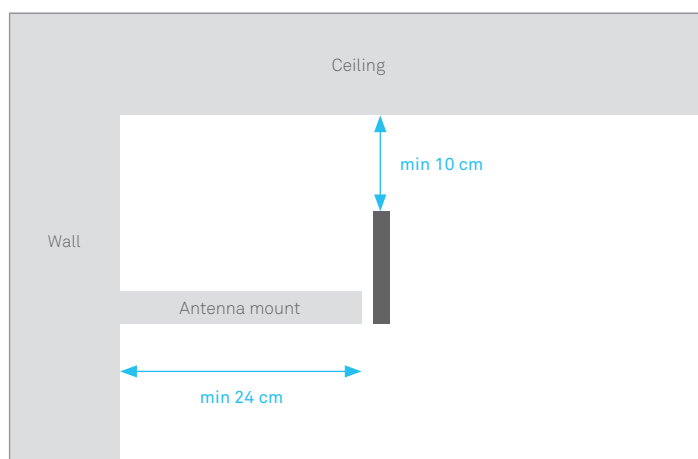
## Explosion protection

Marking ATEX	II 2 G Ex eb IIC T6 Gb , -40 °C ≤ Ta ≤ +60 °C II 2 D Ex tb IIIC T85 °C Db, -40 °C ≤ Ta ≤ +60 °C
Certification ATEX	Presafe 14ATEX4900X
Certification IECEX	IECEX Pre 14.0016X
Certification KCs	KTL 20-KA4BO-0758X
	Other approvals and certificates, see <a href="http://www.bartec.com">www.bartec.com</a>

## Technical specifications

Compatibility	802.11a/b/g/n and Bluetooth®
Frequency	2.4GHz and 5GHz or 2.4-5.8GHz
Gain	1-5dBi
Polarization	Vertical
Vertical beam width	80°
Horizontal beam width	360°
Impedance	50 Ohm
Max input voltage (amplitude)	20 V (EX limitation)
Max input power	2 Watts (EX limitation)
Height	140 mm
Height incl bracket	180 mm
Width, diameter	Ø 30 mm
Width, incl bracket	45 mm
Weight, incl bracket	100 g
Fixing holes bracket	2x Ø 6 mm
External earth conn.	M5 screw
Ingress protection	IP66/IP67
Wind survival	>150 MPH
Operating temperature	-40 °C to +60 °C
Mounting method	Wall/mast bracket
WiFi Certification	802.11a/b/g/n
RF connections	TNC-RP as standard, N-type on request

## Installation guide

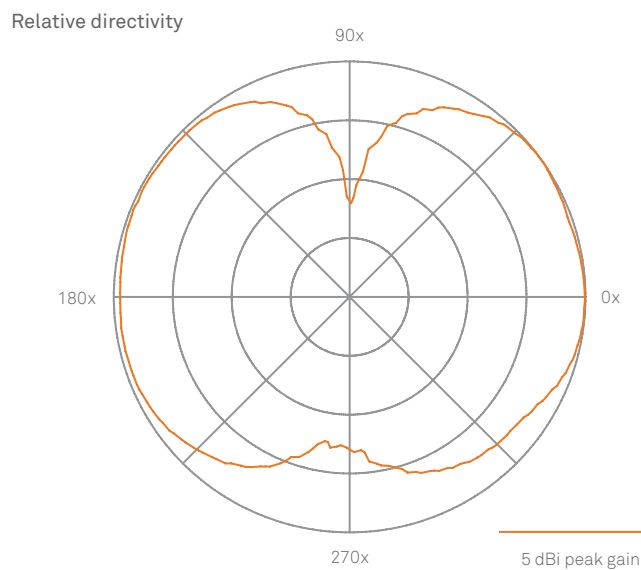


### Checklist for Antenna / Wi-Fi Network Installation

01	Choose the shortest cable length possible.
02	Place antennas visible from several angles (corners etc).
03	Generally place the antenna as high on the wall as possible (10 cm clearance to ceiling).
04	Leave two wavelengths (24 cm) between wall and antenna.
05	Don't hide the antenna behind obstacles.
06	Don't place the antenna horizontally.
07	Angle the antenna slightly downward when placed above ceiling height (check pattern).
08	Use a site survey tool to determine coverage (Netstumbler etc).
09	Check for Wi-Fi channel interference (using Netstumbler etc).
10	We recommend max 30 meters antenna cable for unamplified configuration and maximum 50 meters cable for amplified configurations.

	Order number	Configuration
RP-TNC	373572	ANTD01 Dual Band Antenna 1m RP-TNC
	405271	ANTD02 Dual Band Antenna 2m RP-TNC
	418277	ANTD05 Dual Band Antenna 5m RP-TNC
	412797	ANTD10 Dual Band Antenna 10m RP-TNC
	444276	ANTD15 Dual Band Antenna 15m RP-TNC
	427774	ANTD20 Dual Band Antenna 20m RP-TNC
	452403	ANTD25 Dual Band Antenna 25m RP-TNC
	452286	ANTD30 Dual Band Antenna 30m RP-TNC
N-TYPE	435847	ANTD01 Dual Band Antenna 1m N-TYPE
	445410	ANTD02 Dual Band Antenna 2m N-TYPE
	436281	ANTD05 Dual Band Antenna 5m N-TYPE
	444119	ANTD10 Dual Band Antenna 10m N-TYPE
	452404	ANTD15 Dual Band Antenna 15m N-TYPE
	415254	ANTD20 Dual Band Antenna 20m N-TYPE
	452415	ANTD25 Dual Band Antenna 25m N-TYPE
	452324	ANTD30 Dual Band Antenna 30m N-TYPE
Pigtail for SMA connector	439293	RP-TNC-Female To RP-SMA-Male Cable 30cm pigtail

## Radiation pattern



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