



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CML 22.0050X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2022-12-15)

Status: **Current** Issue No: 1

Date of Issue: 2023-08-02

Applicant: **BARTEC AS**
Vestre Svanholmen 24
Sandnes 4313
Norway

Equipment: **Xbeam™ XL EX 2-6 and Xbeam™ LTE EX 0.5-6**

Optional accessory:

Type of Protection: **Increased Safety Ex "e", Encapsulation Ex "m" and Dust Protection by Enclosure Ex "t"**

Marking: Ex eb mb IIC T6 Gb, Ex tb IIIC T85°C Db
-40°C ≤ Ta ≤ +60°C
IP66 / IP67

Approved for issue on behalf of the IECEx
Certification Body:

L A Brisk

Position:

Assistant Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2 Aug 2023

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX CML 22.0050X**

Page 2 of 4

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Manufacturer: **BARTEC AS**
Vestre Svanholmen 24
Sandnes 4313
Norway

Manufacturing
locations: **BARTEC AS**
Vestre Svanholmen 24
Sandnes 4313
Norway

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/CML/ExTR22.0116/00](#)

[GB/CML/ExTR23.0188/00](#)

Quality Assessment Report:

[NO/DNV/QAR23.0002/01](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX CML 22.0050X**

Page 3 of 4

Date of issue: 2023-08-02

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Xbeam™ XL EX 2-6

The Xbeam™ XL EX is a radio frequency antenna for creating wireless networks (typically WiFi, Bluetooth, ZigBee, WirelessHART and ISA100) and wireless telemetry systems in hazardous area. The antenna is not limited to a specific network protocol and can be used for any 2-6GHz application.

The antenna is for use in typically steel and concrete structure environments where multipath effects and reflections are present.

Xbeam™ LTE EX 0.5-6

The Xbeam™ LTE EX is a radio frequency antenna for creating wireless networks typically (4G/5G/LTE) and wireless telemetry systems in hazardous areas. The antenna is not limited to a specific network protocol and can be used for any 0.5-6GHz application. The antenna is for use in typically steel and concrete structure environments where multipath effects and reflections are present.

See Annex for full description and Condition of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex for Specific Conditions of Use



IECEX Certificate of Conformity

Certificate No.: **IECEX CML 22.0050X**

Page 4 of 4

Date of issue: 2023-08-02

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduces the following changes:

1. Update to Applicant/Manufacturer name

Annex:

[IECEX CML 20.0050X Iss. 1 Certificate Annex_1.pdf](#)

Annexe to: IECEx CML 20.0050X, Issue 1
Applicant: BARTEC AS
Apparatus: Xbeam™ XL EX 2-6 and Xbeam™ LTE EX 0.5-6

Description

Xbeam™ XL EX 2-6

The Xbeam™ XL EX is a radio frequency antenna for creating wireless networks (typically WiFi, Bluetooth, ZigBee, WirelessHART and ISA100) and wireless telemetry systems in hazardous area. The antenna is not limited to a specific network protocol and can be used for any 2-6GHz application. The antenna is for use in typically steel and concrete structure environments where multipath effects and reflections are present.

The antenna is constructed with permanently connected cable that must be mounted according to instructions. The antenna cable may be delivered with a coax plug (typically RP-TNC or N-Type) or without.

The connection must be carried out in an appropriate certified Ex e, Ex d or Ex p enclosure or in a safe area. Additional clamping of cable shall be installed to ensure that pulling and twisting is not transmitted to the terminations inside the antenna.

Electrical data:

- Max Input Voltage: 20V
- Max Input Power: Gas group IIA = 6W, Gas group IIB = 3.5W, Gas group IIC = 2W
- Frequency: 2-6 GHz

Xbeam™ LTE EX 0.5-6

The Xbeam™ LTE EX is a radio frequency antenna for creating wireless networks typically (4G/5G/LTE) and wireless telemetry systems in hazardous areas. The antenna is not limited to a specific network protocol and can be used for any 0.5-6GHz application. The antenna is for use in typically steel and concrete structure environments where multipath effects and reflections are present.

The antenna is constructed with permanently connected cable that must be mounted according to instructions. The antenna cable may be delivered with a coax plug (typically RP-TNC or N-Type) or without.

The connection must be carried out in an appropriate certified Ex e, Ex d or Ex p enclosure or in a safe area. Additional clamping of cable shall be installed to ensure that pulling and twisting is not transmitted to the terminations inside the antenna.

Electrical data:

- Max Input Voltage: 20V
- Max Input Power: Gas group IIA = 6W, Gas group IIB = 3.5W, Gas group IIC = 2W
- Frequency: 0.5-6 GHz



Certificate Annex IECEx
 Version: 9.0 Approval: Approved

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Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. The dielectric strength test according to EN / IEC 60079-18, clause 9.2 shall be performed on each piece of equipment.

The Xbeam™ LTE shall be subjected to a visual inspection. No damage shall be evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion (separation of any adhered parts) or softening.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. Under certain extreme circumstances, the product may be considered to be a potential electrostatic charging hazard. The risk of electrostatic discharge shall be minimized as stated in EN IEC / IEC 60079-0 clauses 7.4.2 and 7.4.3. Wipe only with a damp cloth.
- ii. The maximum effective output power is limited to the following values:-
 - Gas group IIA = 6W
 - Gas group IIB = 3.5W
 - Gas group IIC = 2W
- iii. The Xbeam™ XL antenna must be mounted on the bracket and the bracket must be connected to earth.

The Xbeam™ LTE antenna must be connected to earth.