Enterprise Mobility, Connectivity, and Automation

Driving Digitalization in Hazardous Areas

We are strong in these markets

Core markets

Oil and Gas

BARTEC offers a broad portfolio of systems and products for explosion protection in the extraction of crude oil and natural gas, during transport and processing in refineries. Our entire product range must be able to meet the demands of tough environments and extreme climatic conditions.

Chemicals

Explosion protection is particularly important in the chemicals industry because the production processes often involve flammable gases, liquids and dusts. BARTEC supplies this significant branch of industry with components through to complete system solutions.

Pharmaceuticals

Gases, dusts and hygiene regulations place special demands on explosion protection in the pharmaceuticals industry. Clean room technology with special requirements—on surface cleaning for example—is one of the great challenges mastered by BARTEC with its very high quality products.

Food & Beverage

Explosive atmospheres pose unique challenges for the F&B industry, including the production of alcoholic and non-alcoholic drinks, foods, as well as the production and consumption of flavors and fragrances. BARTEC solutions are trusted by the world's leading F&B companies as well as by related packaging and logistics suppliers.

Energy

The energy industry has been at the core of the BARTEC solution offering for a long time. BARTEC's electric trace heaters have been successfully used in both conventional and solar power plants for many years. Today, disruptive energy industry developments like LNG, biogas, battery production, and hydrogen for fuel cells are increasingly important conditions.

Industry / Logistics

Smooth and efficient supply chains are hugely important for packaging, filling and transportation of potentially explosive products. BARTEC makes no compromises when it comes to safety here. Our products and solutions ensure faultless volume measurements and safe transportation.

BARTEC is a global leader in solutions for all aspects of safety and protection in hazardous areas. This applies not only to our advanced technologies but also to our performance-oriented service. Our customers can rely on us for excellence and the highest quality. To maintain these standards, we are always committed to operating towards these goals, protecting what is most important: your people, the environment, and your assets.

BARTEC has over 20 years of experience in connectivity and digitalization, which has driven the development of advanced technologies. By listening to trends and applying that to R&D and the in-house engineering experience, BARTEC can offer the market a comprehensive range of solutions to enable the digital transformation seen across many industries.

Our collaborations with partners like Zebra Technologies are critical. The commitment to fostering strong partner relationships means BARTEC can optimize devices for Zone 1 and 2 environments, including barcode scanners, mobile computers, and tablets.

BARTEC's commitment to supporting our customers' digital transformation is further enhanced by the recent acquisition of Extronics. Known for its innovative solutions in hazardous area technologies, Extronics strengthens BARTEC's leadership in industrial connectivity and digitalization. This new BARTEC member brings a valuable portfolio, including advanced RFID tracking, Wi-Fi infrastructure for challenging environments, and real-time location systems (RTLS) to enhance safety and efficiency in hazardous areas.

Executive Commitment to Digitalization

Per-Erik Nilsen
Global Sales Director, EMCON

A new year brings new opportunities, and EMCON is entering it with strong momentum in our digitalization journey. By combining innovation with practical expertise, we are building solutions that support our customers' long-term success and future growth in the hazardous areas.

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We are building solutions that support our customers' long-term success and future growth in the hazardous areas.

Dr. Martin Schefter
Chief Executive Officer (CEO), BARTEC

From the start, I saw BARTEC's potential to become an innovation leader in the Ex sector. My goal was to realize that potential. We now are well-positioned to lead digitally in this industry.

BARTEC plays a major role as a global leader in the digital transformation of hazardous area safety. We are growing in alternative energy markets, expanding internationally (with the USA as a key focus), and investing in innovative, tailored solutions while improving efficiency through standardization and automation.

Extronics offers an excellent addition to our digitization portfolio, which we intend to expand even further in the future. Together, we are becoming the pioneer in the field of digital solutions for explosion protection.

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BARTEC plays a major role as a global leader in the digital transformation of hazardous area safety.

Mobile devices

Seamless mobile communication and smart data capture

BARTEC SP9^{EX1} Smartphone

- Certified for ATEX, IECEx Zone 0/1/21 and NEC Class I, II, III, Division 1 zones
- Compact and lightweight design optimized for all-day productivity.
- Intrinsically safe design with over 1,000 dedicated components ensuring ex protection.
- Qualcomm® QCM6490 processor supporting public and private 5G network connectivity.
- High-performance 48MP main camera and 8MP front camera for video calls.
- MIL-STD-810H and IP68 rated for water and dust resistance.

BARTEC SC9^{EX1} Smartscanner

- Certified for ATEX, IECEx Zone 0/1/21 and NEC Class I, II, III, Division 1 zones
- Integrated Zebra® SE55 Advance Range Scan Engine
- Fast 5G public and private network connectivity
- Lightweight (only 370 g)
- Green laser aimer with scanning range of up to 14m
- With Illumination for dark areas
- Captures multiple barcodes.

BARTEC SP9^{EX1} Smartphone Cam

- World's most compact camera for Zone 0/Zone 1/ Division 1
- High quality low-light optimized camera: 48MP main camera and 8MP front camera for video calls.
- MIL-STD-810H and IP68 rated for water and dust resistance.
- Broad range of accessories, Android™ 15, and comprehensive lifecycle support.

TC78ex-NI Touch Computer

- Certified for ATEX, IECEx Zone 2/22 and NEC Class I,II,III Division 2
- 6-inch Full HD+ display
- Faster, future-ready wireless connections with WiFi 6E and 5G
- Integrated advanced range barcode scanner (up to 12m)
- Ultra-rugged, dust and water proof (IP68)
- Powerful Zebra-only Mobility DNA tools.

MC9400/9450^{EX2} Mobile Computer

- Certified for ATEX, IECEx Zone 2/22 and NEC Class I,II,III Division 2
- Wi-Fi 6E and public/private 5G
- new SE58 scan engine delivers best in class scanning range with up to 30m
- Fast Qualcomm 4490 platform delivers 2.5 times more processing power than previous generation and support up to Android 18
- Enhanced 12 ft./3.65 m drop spec
- IP68/65 rating
- Powerful Zebra-only Mobility DNA tools

BCS3600ex handheld scanner series

- Certified for ATEX, IECEx Zone 1/21 and 2/22 and NEC Class I,II,III Division 1 and 2
- Unparalleled scanning performance – capture barcodes in any conditions
- Longest reading range – up to 2.1m in Zone 1/ Div. 1 and up to 21m in Zone 2/Div. 2
- Unparalled battery performance – up to 100,000+ scans per charge
- Ultra-rugged design for unprecedented durability in rough environments

ET60/65^{EX2} Android Tablet

- Rugged design optimized for Zone 2/Div. 2 hazardous areas
- Fast Qualcomm 6490 processor with AI and ML capabilities
- Super bright 1,000 nit 10 inch display
- Industry leading data capture options including the SE55 advanced range scanner and OCR2 software
- Wi-Fi 6E, and optional support for public and private 5G networks
- Full-shift battery power and Super Capacitor for hot swap support
- Powerful Zebra-only Mobility DNA tools

Agile S-NI 10.1" Tablet PC

- Certified for Zone 2/22 and Class I Div 2
- Rugged with IP65 rating and MIL-STD-810G
- Powerful processor for high working speed
- Versatile wireless connectivity options including WiFi, Bluetooth, and 4G/LTE support
- Packed with data capture features, including an integrated barcode scanner, cameras, and NFC reader

Connectivity

Safe, compact wireless solutions for hazardous areas

EXgate™

Next-generation Zone 1 enclosure for access points, radios, gateways, nodes and repeaters.

– Offered in different sizes for fitment of a wide range of electrical equipment
– Small SS316L enclosure with low weight, certified for use in hazardous areas
– Radio frequency transparent dome
– Easy ceiling or wall mounting with the included quick fix bracket.

iWAP107

Universal wireless enclosure for Zone 1 areas.

– Install standard wireless device from any vendor
– ATEX & IECEx Zone 1 and 21 certified
– US & Canada Class I Div 1
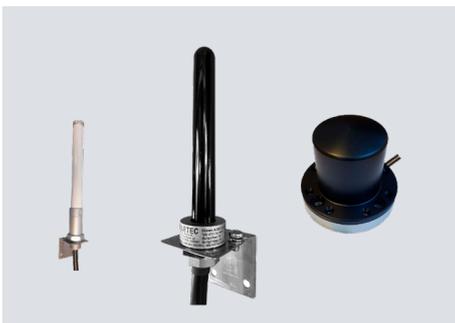– Intrinsically safe RF outputs.

iWAPXN3

Universal wireless enclosure designed specifically for wireless applications in Zone 2 areas.

– ATEX & IECEx Zone 2 and 22 certified
– US & Canada Class II Div 2
– Offered in different stand sizes to fit a wide range of wireless devices
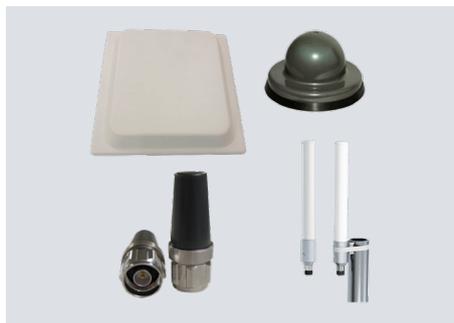– Intrinsically safe RF outputs.

Xbeam™ Ex antennas 0.5GHz - 6GHz

A range of Ex antennas with option for 0.5GHz to 6GHz wireless networks in Zone 1 / Class I Div 2. The antenna range can be utilized in:

– Wi-Fi
– WLAN
– ZIGBEE
– WirelessHART
– 4G / 5G / LTE
– And more!

iANT Standard Antennas

Our iANT antenna range, fully assessed by Extronics' engineers as 'simple apparatus' under intrinsic safety standards, provides a wide choice of standard antenna options for use with our iWAP range of hazardous area wireless enclosures.

– A wide range of antenna options covering the latest technologies, including Wi-Fi 6E, BLE, LTE, UHF and more!
– Use in hazardous areas with iWAP
– Easy installation.

iSOLATE501

The iSOLATE501 is an ATEX, IECEx, and MET approved RF galvanic isolator.

– Galvanic isolation provides an intrinsically safe RF output
– Use standard antennas in hazardous areas
– Zones 0, 1, 2/22 and mining applications
– cMETus Class I, II, Div 2, Class III Div 1 & 2, Groups A-G. Class 1, Zone 0, Group IIC T4.

Real Time Location Systems (RTLS)

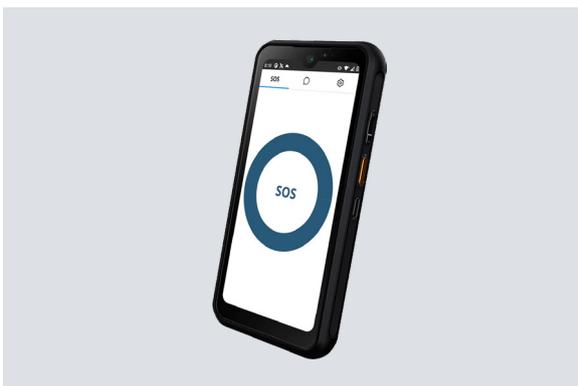## Making hazardous area location simple!

iTAG XB Range

– Intrinsically safe tags for hazardous area tracking
– Fully battery powered
– Low-cost
– Hazardous area certified
– Easy and fast to deploy
– Rugged design with IP68 rating.

iTAG X-Range

– Accurately locate your workers in hazardous and non-hazardous areas
– Leverage hybrid location technology, including Wi-Fi, BLE, GPS, and LF for accurate indoor and outdoor tracking
– Fully certified for use in hazardous areas.

iTAG XM Android App

Bringing hybrid location tracking technologies to your Android Ex smartphone. The iTAG XM app is the next addition to our iTAG X-Range family of hybrid RTLS solutions for hazardous areas.

– Accurately locate your workers indoors and out
– Install on any Ex certified Android smartphone
– Wi-Fi or cellular connection to the network
– No need to carry extra devices.

Extronics Location Engine (ELE)

The Extronics Location Engine (ELE) software utilizes hybrid location technology to provide "dot on a map" for visualization platforms.

– Utilizes a variety of location technologies for increased location accuracy and flexibility
– Setup hybrid location technology zones for increased accuracy
– Available API makes it easy to integrate with your preferred visualization platform.

Radio Frequency Identification (RFID)

Effective asset management in harsh or hazardous areas

iRFID107 & iRFIDXN3

- Universal RFID Reader Enclosure systems
- ATEX & IECEx Zone 1/ 21 and Zone 2/ 22 options
- US & Canada Class I/ II, Div 1 and Div 2 options
- Available in multiple sizes to accommodate a variety of reader sizes.

iRFID500

- Zone 0 Handheld Bluetooth Passive UHF RFID Tag Reader
- ATEX and IECEx
- Zones 0, 1, 2, 20, 21, and 22
- Mining, M1
- US and Canada Class I, II, and III, Div 1
- Integrate with your existing system.

iTAG500

- Intrinsically Safe Passive UHF RFID Tags
- Certified Intrinsically Safe to ATEX, IECEx and FM standards
- Excellent read signal on, off, and near metals and liquids
- Extremely rugged and durable tag construction
- Wide variety of tags to choose from.

Automation and Machine Control

Future-proof industrial solutions for danger zones

POLARIS SMART HMI 12.1" W

– Capacitive touch display
– Low reflection due to "optical bonding"
– Display resolution of 1280 x 800 pixels
– Windows Operating System for external visualisation software
– Front panel mounting for easy installation and integration.

ComEx Control Stations

– For Zone 1/21
– 3 standard enclosures
– Easy to install
– Extremely flexible
– Customer-tailored solutions.

Local control stations

– The right size/material enclosure
– Optimum functionality thanks to the great variety of components
– Customised planning and implementation
– Certified to many standards.

Modular Bus System for Zones 1/21

– BARTEC's MODEX bus module for Zone 1/21 connects safe areas to hazardous areas using a standard bus system.
– Designed for components with low power demands, meeting "intrinsically safe" requirements for ease of use and sensor/actuator replacement.
– Ideal for environments demanding flexibility, functionality, safety, and high reliability.

World's Most Compact 5G Smartphone and Smart Scanner for Zone 1 / Div 1

Effective asset management in harsh or hazardous areas

Industry / Use Case

The BARTEC SP9^EX1 Smartphone is ideal for professionals in hazardous environments requiring reliable communication and data management. It is perfect for field workers, engineers, and safety inspectors who need a secure, durable device that can handle challenging conditions and accurately document work with 4K video and high quality still images in low light. These can be solutions in following areas:

- Field Inspections and Data Collection
- Safety Compliance and Monitoring
- Maintenance and Repairs Asset Management
- Communication in Hazardous Areas
- Remote Training and Support.

Technology / Solution

- Qualcomm® QCM6490 processor
- 8 GB RAM, 128 GB storage
- 48 MP main camera, 8 MP front camera with 4K video recording
- IP68 and MIL-STD-810H certification
- Gorilla® Glass Victus® for screen protection
- Android 13 operating system.

Benefits

- Compact and lightweight for one-handed use
- Over 1,000 dedicated components ensuring EX protection
- Supports fast 5G public and private networks
- Intrinsically safe design optimized for hazardous areas.

Wireless Connectivity

Extending your wireless into hazardous areas

Industry / Use Case

BARTEC, along with the Extronics Wireless product range, offer the most comprehensive set of hazardous area wireless enclosures on the market. Serving any hazardous area requirement found across the process industries, our Wireless offering has you covered.

Our purpose built Zone 1/ Div 1 and Zone 2/ Div 2 wireless enclosures enable our customers to extend their infrastructure into the hazardous area to support the digital future.

- IoT data
- Sensor connectivity
- Connected worker
- Enterprise mobility
- Worker safety

BARTEC and Extronics combined wireless portfolio of solutions has everything you need to take your digital network to the next level.

Technology / Solution

iWAP – Built for Wireless

Extronics iWAP range of hazardous area wireless enclosures is the latest addition to the BARTEC wireless offering. Providing a set of universal wireless enclosures, available in multiple sizes and certified to all major global hazardous area standards, the iWAP range is the next generation in hazardous area wireless.

EXgate

BARTECs recently launched EXgate range of wireless enclosures builds on the previous generation of wireless enclosures.

Antennas

We also bring customer a wide variety of the latest Ex and standard antennas to support your network requirements.

Benefits

Our combined experience and expertise mean you have a trusted partner helping you extend your network into the hazardous area!

iWAP

Perfectly suited for high temperature enviroments due to the external antenna design. Directional antennas and ability to remotely mount these can optimise wireless coverage on outdoor sites. Certified for the US and Japanese markets.

EXgate

Stainless steel material for harsh chemicals and offshore environments. Simple ceiling mount installation.

Phygital Learning in Explosion Protection

Practical virtual and in-person training

BARTEC Academy is your go-to destination for phygital (physical/in-person and digital/remote) learning about hazardous areas with potentially explosive atmospheres. Our digital interactive experiences range from microlearning videos to boot camps and certification programs, offering flexible learning anytime, anywhere. We also provide in-person learning experiences conducted at various locations worldwide, along with personalized training sessions led by expert facilitators. With support from our engineers and partners, we deliver practical knowledge on national and international explosion protection codes and standards, including ATEX, IEC, ISO/IEC, IECEx, NEC, UKCA, UKEx, INMETRO, and others.

– **Phigital Learning Modalities**
Enjoy the physical (in-person), digital (virtual), or hybrid learning option that best suit you, your colleagues, and customers.

– **Global Experience and Reach**
Get support from experts and faculty members with robust and recognized global experience in Ex projects.

– **Learner-centered Model**
Be the center of the work of our designers, faculty members, and platform managers, who are dedicated to meet and exceed your learning expectations.

– **ExPP and IECEx Certificates**
Obtain a BARTEC Academy Explosion Protection Professional (ExPP) Certificate or the IECEx Certificate of Personnel Competence (CoPC).

http://academy.bartec.com

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