

# COMARCH IOT DEVICES

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PRODUCT SHEET

**COMARCH**  
Technologies

# COMARCH BEACON®

Comarch beacon is a compact BLE device broadcasting a radio signal, readable by any smartphone. Mobile application combined with Comarch IoT Platform delivers personalized, location-based content directly to

customer. The main goal of Comarch beacon technology is to improve customer's experience anytime and anywhere thanks to two variants of Comarch beacon device.



## STANDARD VERSION

- Provides location awareness and proximity sensing
- Protected by anti-spoofing & usage protection mechanisms
- Equipped with temperature and accelerometer sensors
- Supports iBeacon® and Eddystone® standards

## TECHNICAL SPECIFICATION

<b>SIZE AND WEIGHT</b>	<b>CONNECTIVITY</b>
50.57 mm x 44.59 mm x 14 mm; 20 g	Bluetooth® 4.1 Low Energy
<b>TEMPERATURE OPERATING RANGE</b>	<b>SIGNAL STRENGTH</b>
5° to +85° C	Up to: 30 m indoor, 100 m outdoor
<b>BATTERY</b>	<b>COMPATIBLE SMARTPHONE OS</b>
Lifetime: 1 – 3 years ; Capacity: 950 mAh	Android® version 4.4 KitKat (API level 19+); Apple iOS® version 9+
<b>POWER CONSUMPTION</b>	
Idle: 7.3 µA @ 3.35 V ; Peak: 24 mA @ 3 V	



## INDUSTRIAL VERSION

- Equipped with all of the standard beacon features
- Insensitive to high or low temperatures
- Resistant to water and dust (IP65)
- Powered by long-life battery or wired
- RS-485 for external sensors
- Available in 9 variants

## TECHNICAL SPECIFICATION

<b>SIZE AND WEIGHT</b>	<b>CONNECTIVITY</b>
Polycarbonate casing (3 variants); 100 g	Bluetooth® 4.1 Low Energy
<b>TEMPERATURE OPERATING RANGE</b>	<b>SIGNAL STRENGTHS</b>
-30° to +85° C	Up to: 30 m indoor, 100 m outdoor
<b>BATTERY</b>	<b>COMPATIBLE SMARTPHONE OS</b>
Capacity: up to 19000 mAh	Android® version 4.4 KitKat (API level 19+); Apple iOS® version 9+

## BENEFITS

- Drives brand engagement & customer loyalty
- Enhances user experience
- Provides location-based information
- Triggers contextual intelligence



## COMARCH IOT HUB

Comarch IoT Hub (active beacon) acts as a bridge between connected devices and Comarch IoT Platform. It enables secure and reliable short distance communication, distributed control and remote device management

through a single device. The support of leading connectivity protocols provides interoperability and creates new possibilities for business to offer smart services.

### FEATURES

- Supports wired and wireless connectivity protocols
- Equipped with run-time plugins
- Supports both third-parties and Comarch solutions
- Modular architecture

### BENEFITS

- Collects and processes devices data
- Provides two-way communication
- Allows remote management of connected devices
- Easy implementation

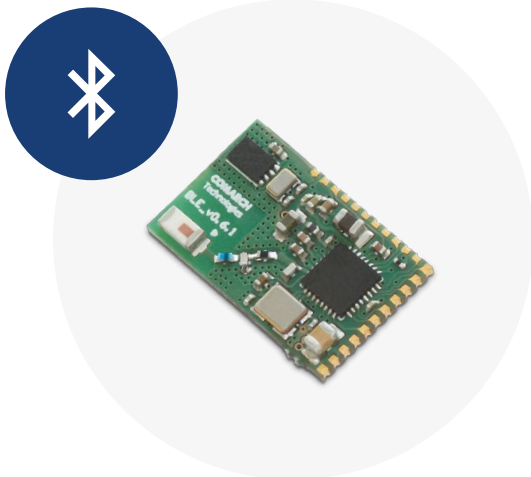
### TECHNICAL SPECIFICATION

SIZE AND WEIGHT	CONNECTIVITY	
64.4 mm x 88.4 mm x 42.2 mm	Bluetooth® 4.1 Low Energy	2.4 GHz Mesh
200 g	3G	Sub-GHz Mesh
TEMPERATURE OPERATING RANGE	WiFi 802.11 b/g/n 2.4 GHz	Open Connectivity Foundation
0° to +65° C	RJ45 Ethernet 10/100Mbps	LoRa®
POWER SUPPLY VOLTAGE	USB type A	
DC jack 5V, micro USB 5V	RS232/RS485	

# COMARCH BLUETOOTH LOW ENERGY (BLE) MODULE

Comarch BLE module helps to transform nearly every product into a smart, connected device by bringing connectivity to its embedded design. Thanks to that, the data collected from the smart device can be sent via Comarch IoT

Hub or any device that supports BLE directly to Comarch IoT Platform. That allows for extensive data analysis, as well as remote control and management of the connected devices.



## FEATURES

- Small size helps to integrate it with nearly every product
- Supports Bluetooth® Low Energy 4.1
- Establishes communication between connected devices
- Facilitates interoperability in a multi-vendor environment

## BENEFITS

- Increases a value of a device
- Accelerates time-to-market
- Brings competitive advantage over business rivals
- Supports both Comarch and third-parties solutions

## TECHNICAL SPECIFICATION

<b>SIZE AND WEIGHT</b>	<b>CONNECTIVITY</b>
18.05 mm x 11 mm x 2.8 mm; ~4 g	Bluetooth® 4.1 Low Energy
<b>TEMPERATURE OPERATING RANGE</b>	<b>SIGNAL STRENGTHS</b>
-30° to +85° C	Up to 100m
<b>POWER SUPPLY VOLTAGE</b>	<b>PHYSICAL INTERFACES</b>
1.8 - 3.6V	I2C; 12 digital PIOs; 3 analogue AIOs; UART
<b>POWER CONSUMPTION</b>	
Idle: 7.3 µA @ 3.35V; Peak: 24 mA @ 3V	

## ABOUT US

Comarch is a leading Central European IT business solutions provider specializing in forging business relationships that maximize customer profitability while optimizing business and operational processes.

Comarch Technologies draws from a wide expertise Comarch has accumulated during 20 years of its business activity in the field of delivering comprehensive IT solutions. Its main concern is to provide the customers with the most reliable and secure solutions that consist of advanced software along with innovative hardware infrastructure supported by professional services.

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