



# HIRSCHMANN

A **BELDEN** BRAND

## New Product Bulletin

**NP 1043HE**

### **Hirschmann™ OpenBAT Clear Space® Wireless**

New Hirschmann™ OpenBAT hardware platform delivers maximum flexibility for highest speed and reliability.



**OpenBAT Allows You to Find the Right Wireless Solution in Your Industrial Application and Makes it Stable and Reliable.**

- New Hirschmann™ OpenBAT platform combines speed and reliability with maximum flexibility, delivering the most versatile solution in the market today
- Patented Clear Space® Technology and integrated ESD protection delivers highest power and speed for industrial applications

The new family of Hirschmann™ OpenBAT hardware is the latest generation of WLAN devices, representing a new evolutionary stage in WLAN technology, increasing WLAN network speed by up to 50% compared to the BAT300 devices. Designed, developed and patented by Hirschmann™, the OpenBAT platform allows you to select the device you need from a nearly unlimited range of interfaces, power supplies, housing types and specific certifications. The platform offers additional flexibility by allowing you to design a wireless network by either using the OpenBAT devices as standalone Access Point or managing the network centrally by the BAT-Controller.

The new BAT generation delivers up to 30% cost savings and reduces the installation complexity and time as formerly external accessories, including ESD protection, power supply and fiber ports are now directly integrated into the OpenBAT hardware. Furthermore, the ESD discharge protection guarantees a longer lifetime of radios, delivering further cost savings.

### **Clear Space® Wireless**

The application of bandpass filters helps to eliminate all interference caused by competing radio signals. The resulting Clear Space® wireless delivers greater transmission stability over longer distances without interruptions. The highest performance speed of 450 Mbps facilitates new applications such as HD video streaming.

**A new product to  
serve your needs.  
Be certain.**



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## Hirschmann™ OpenBAT



### Applications

This product family was designed with maximum flexibility in mind. It is suitable for applications in a range of markets, especially in public transport, discrete automation, process automation, transportation, power transmission and distribution, mining and renewable energy generation.

The new "Open" platform makes it possible to realize wireless solutions in areas where this was not possible until now and allows you to choose the right product variant for the best solution, so you only pay for what you really need. These devices have enhanced shock and vibration stability, making them extremely suitable for use in harsh and demanding industrial environments.

### These include:

- Power Transmission and Distribution, where thanks to remote service access application: operators can access internal networks from outside and as a result reduce the risk of entering areas with high tensions.
- Mining: Here superior vibration resistance allows the use of wireless links for equipment on vehicles, so intelligent devices can be used for the optimization of processes and reduced risk of accidents.



The Hirschmann™ BAT Operating System

### Benefits

This new product range continues to build on the powerful software already known from other Hirschmann™ BAT products. Key benefits include maximum flexibility and outstanding performance, thanks to superior WLAN capabilities for Infrastructure, WDS and Mesh networks to integrated Routing, Security, WAN access to redundancy and VPN. All supported by management tools that lead the user to the most effective solution possible.

This patented Hirschmann™ family of high quality OpenBAT WLAN devices offer greater user flexibility combined with longer lifetime performance and superior radio link quality.





## HiLCOS

The Hirschmann™ BAT Operating System

### The Advantages at a Glance

Hirschmann™ was in 2008 the first industrial vendor to introduce the 802.11n standard with its robust MiMo and Multipath technology in the BAT300 series. The antenna portfolio is already supporting the radio interfaces using three antennas for sending and receiving.

This new generation of Hirschmann™ of WLAN devices operates with a bandwidth of up to 450 Mbps, delivering higher speed and greater system stability. A key technical aspect is the radio module. It is patented and offers integrated ESD protection, Clear Space® technology for better WLAN link quality, optimized receiver sensitivity, enhanced temperature behaviour, vibration and shock proof connectors. Thanks to its wide range of options, Hirschmann™ OpenBAT has the versatility and flexibility to meet the needs of most industries.

#### Features include:

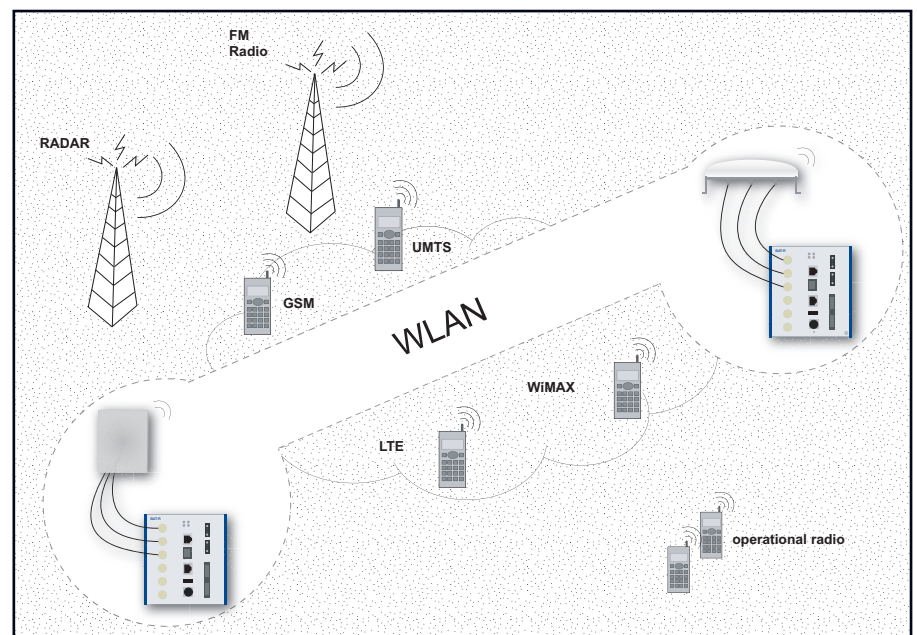
- Extended temperature range
- Enhanced shock and vibration stability
- New CPU platform with Gigabit Ethernet support
- Selectable type of power supply fits the device to the application
- Supporting all types of certifications needed for vertical applications
- Newest technology designed for harsh and demanding industrial environment
- Long lasting devices, high MTBF guarantee low failure rate
- Best radio technology enabling new applications and reliable connections
- Redundant design enable high availability and network stability
- Flexibility to either run with or without the BAT-Controller
- Powerful operating system that guarantees solutions in every application
- Supporting highest security standards for guaranteed safe and reliable networking

The devices are equipped with redundant power supplies, ensuring that critical applications will continue to run even if one power supply fails and that expensive production processes will not be interrupted by faulty power supplies.

Clear Space® technology delivers reliable radio connections, even in locations such as ports, where many competing radio technologies are used. The new patented Hirschmann™ radios will not be affected, so that for instance a video transmission over WLAN supervising the building of a ship will remain stable and high quality. Overall, video installation costs are lower and less complex. This also applies to installations in trains. Hirschmann™ BAT devices can withstand electrical discharges.

They can be used in trains without additional surge arrestor, reducing installation space, complexity and cost. Highest security standards ensure that information is transmitted only where it belongs to and transmission of sensitive data cannot be stolen or misused. Where data is transmitted over a wireless link, machine operations can not be interrupted, copied or misused. And by using BAT devices with encryption and authentication on the wireless link, access to the network is securely restricted to permitted users.

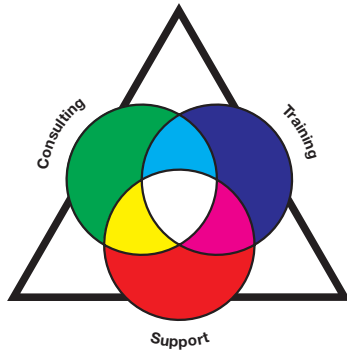
The operating system HiLCOS is sufficiently flexible so that even special application needs can be met. It was developed by Hirschmann™ engineering experts, and based on more than 15 years of experience, so that effective solutions can be found for virtually every application.





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## The Belden® Competence Center

As the complexity of communication and connectivity solutions has increased, so have the requirements for design, implementation and maintenance of these solutions. For users, acquiring and verifying the latest expert knowledge play a decisive role in this. As a reliable partner for end-to-end solutions, Belden offers expert consulting, design, technical support, as well as technology and product training courses from a single source: Belden Competence Center. In addition, we offer you the right qualification for every area of expertise through the world's first certification program for industrial networks. Up-to-date manufacturer's expertise, an international service network and access to external specialists guarantee you the best possible support for products from Belden®, Hirschmann™ and Lumberg Automation™. Irrespective of the technology you use, you can rely on our full support – from the implementation to the optimization of every aspect of daily operations.

### Always Stay Ahead with Belden

In a highly competitive environment, it is crucial to have reliable partners who are able to add value to your business. When it comes to signal transmissions, Belden is the number one solutions provider. We understand your business and want to know your specific challenges and targets to see how effective signal transmission solutions can push you ahead of the competition. By combining the strengths of our three leading brands, Belden®, Hirschmann™; and Lumberg Automation™, we are able to offer the solution you need. Today it may be a single cable, a switch or a connector, thus solving a specific issue; tomorrow it can be a complex range of integrated applications, systems and solutions.

We guarantee the superior performance of your mission-critical systems, even in the most demanding circumstances. If signal transmission is vital to your business, get in touch with the partner that delivers. Be certain. Belden.