Wireless Ethernet Access Point/Clients

OpenBAT Series

The new family of 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.
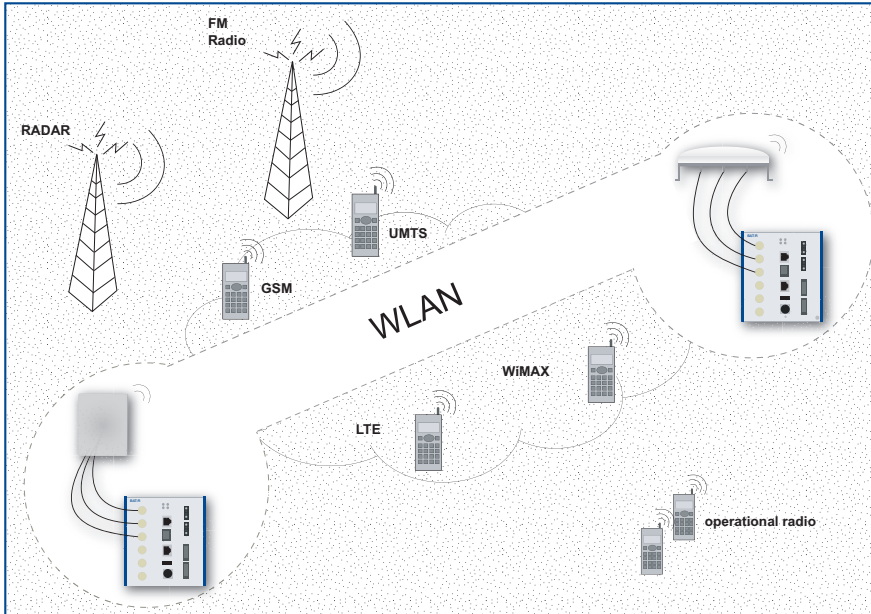
The new BAT generation delivers up to 30% cost savings and reduces the installation complexity and time as formerly external accessories, including ESD protection, power supply and fibre ports are now directly integrated into the OpenBAT hardware. Furthermore, the ESD discharge protection guarantees 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 Mbit/s facilitates new applications such as HD video streaming.

Product Features

- 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 enables 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

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.

Technical Information

Product Description	
Type	OpenBAT
Description	Rugged wireless LAN access point and/or client for use in industrial environments. Robust metal housing for mounting on DIN rails.
Available Ports	One or two WLAN interfaces, IEEE 802.11a/b/g/n, one or two Gigabit LAN ports, Power over Ethernet, GigabitCombo Port with optional SFP
Construction	
Mounting	DIN Rail (BAT-R), Wall and Mast (BAT-F)
Protection Class	IP30, IP67
Dimensions (W x H x D)	120/150 x 136 x 120 mm (BAT-R), ~ 311 x 322 x 75 mm (BAT-F)
Ambient Conditions	
Operating Temperature	0°C to +60°C, -40°C to +70°C (with and without conformal coating) selectable
Storage/Transport Temperature	-40°C to +85°C
Relative Humidity (non-condensing)	mind. 10% to 95%
Radio Technology	
Antenna Connector	3 x MiMo antenna connectors, Reverse SMA socket (BAT-R), N-socket (BAT-F)
Frequency Band	Supports 2.4 GHz and 5 GHz: 2400 to 2483.5 MHz (ISM) and 5170 to 5850 MHz
Power Requirements	
Operating Voltage	Different types of power supplies selectable, 24 V DC, 48 V DC, 90 to 230 V AC, 48 to 320 V DC
Current Consumption at 24 V DC	9 W
Regulatory Approvals	
Safety of Industrial Control Equipment	EN 60950-1, EN 6950-22
Radio	EN 300 328 (2.4 GHz), EN 301 893 (5 GHz), EN 301 489-1, EN 301 489-17
Environmental	EN 50155, EN 61850, Atex Zone II, Class 1 Div 2
For Use in Vehicles and Cars	E1
Reliability	
Warranty	5 years standard

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com

HIRSCHMANN
A **BELDEN** BRAND

Wireless Ethernet Access Points/Clients

BAT54/300 Series

BAT54 products support WLAN standards IEEE 802.11a/b/g/h, and operate at up to 108 Mbit/s (raw data rate).

BAT300 devices support WLAN standards IEEE 802.11a/b/g/h/n and IEEE 802.11n, and they operate at up to 300 Mbit/s (raw data rate).

BAT–Rail devices are supplied in a metal enclosure for mounting on DIN rails in automation or vehicle applications.

BAT–F devices are supplied in IP65/67 metal housings. They are designed for field-level applications or harsh industrial environments.

For complete technical specifications visit: www.hirschmann.com

BAT-Planner and BAT-Planner Pro
Software Suite that Provides Effective Support for Planning WLAN Projects

BAT-Planner ((·))
The **Hirschmann™** Wireless Planning Suite

BAT-Planner

Planning software to plan WLAN projects quickly and easily. Using the free BAT-Planner you can draw up a rough plan of your industry-standard network quickly and reliably without needing to have any profound WLAN knowledge. It provides you quickly and easily with the material list of all the components you need for your solution, comprising access points, antennas, cables and lightning protection. The plan and the material list are produced in the form of an overview and can thus be used as the basis for planning your WLAN project. That gives you an easy and reliable start to a project, and you can implement the next steps together with Hirschmann™ or a Hirschmann™ partner.

BAT-Planner Pro

Planning software for professional detailed planning of your network. BAT-Planner pro allows detailed calculation of the coverage among other things, taking account of wall damping, interference, antenna adjustment and channel distribution.

Available: Q1, 2013