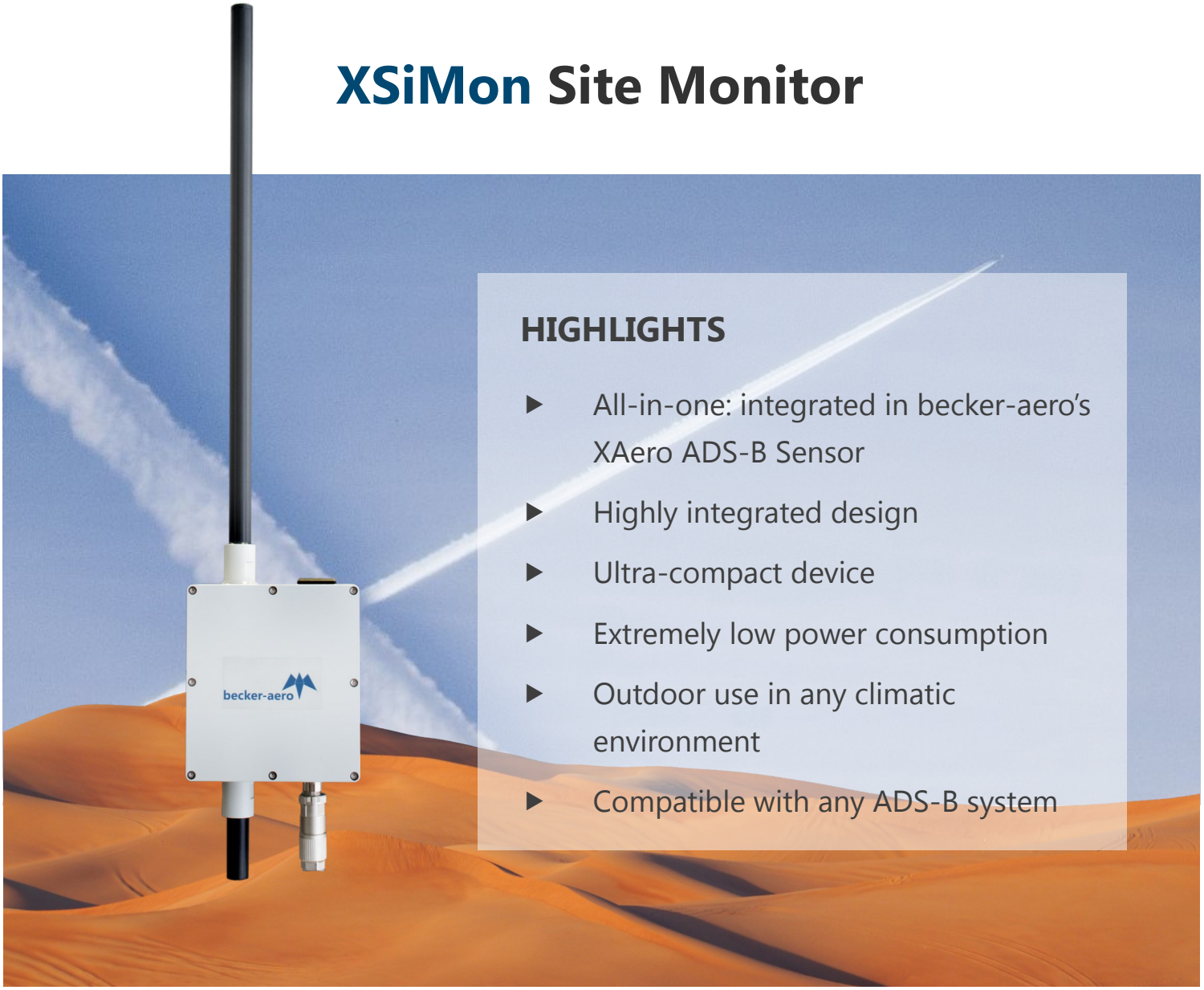
XSiMon Site Monitor



HIGHLIGHTS

- All-in-one: integrated in becker-aero's XAero ADS-B Sensor
- Highly integrated design
- Ultra-compact device
- Extremely low power consumption
- Outdoor use in any climatic environment
- Compatible with any ADS-B system

The becker-aero Site Monitor is a stand-alone operating, monitored device. It is very compact, has an integrated antenna and GPS receiver and is very easy to install.

It is suitable to operate with any other ADS-B system to check the over-all performance or monitor normal operation of such a system.

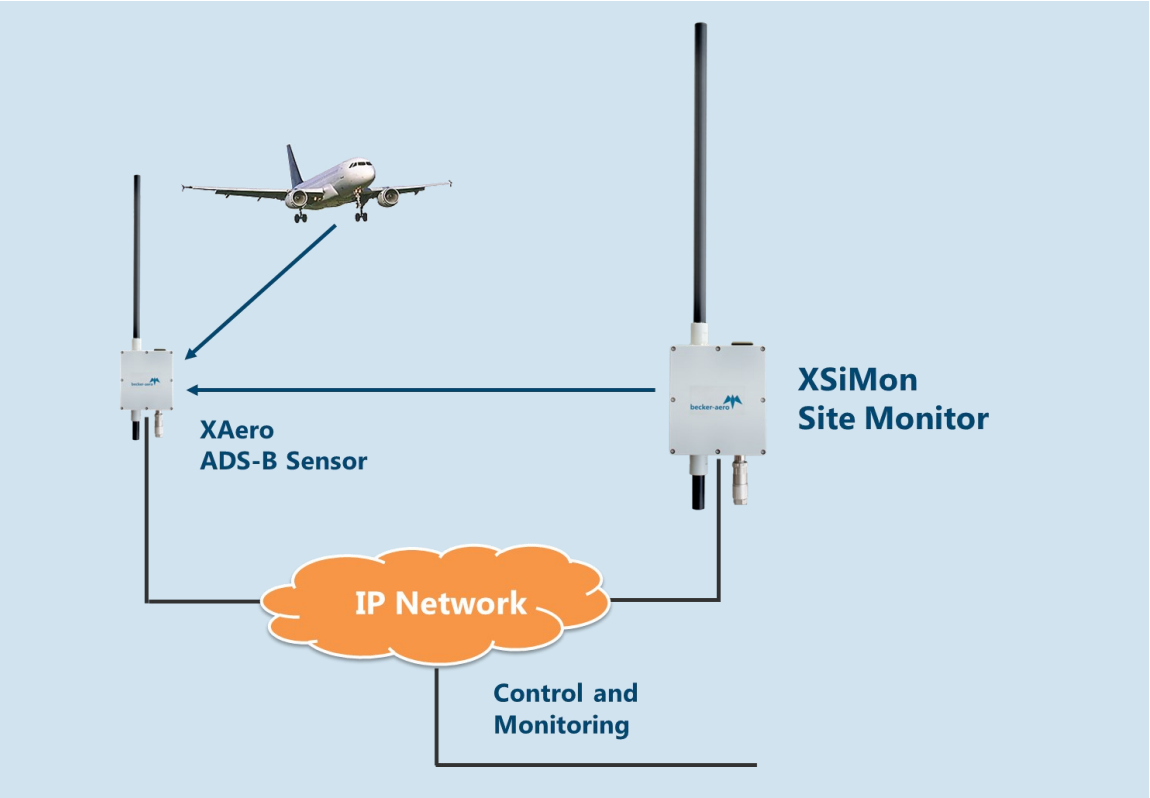
The Site Monitor is an optional feature of becker-aero's ADS-B Sensor *XAero*. Thus two functions are integrated in a single device which offers considerable benefits for the user such as:

- only one interface for Ethernet and power (PoE) by one single cable
- reduced fault liability
- substantially minimised installation and maintenance efforts
- reduced power consumption
- only little UPS required

All items resulting in important cost savings!

The Site Monitor is configured with the following parameters:

- **Mode-S address**: the device requires a 24-bit Mode-S address which it uses in squitters.
- **Target ID**: the device is configurable with an up to eight (8) characters ID to make it easily identifiable.
- **Update interval**: the transmission intervals for every DF18 message type (position and identification message) is configurable independently.
- **Transmit power**: the device is configurable to a transmit power from 0 dBm–27 dBm EIRP in 0.5 dB steps.



- The variable transmit power is configured so that the Site Monitor is just above the detection threshold of the receiver system allowing immediate detection of adverse effects like damaged antenna, LNA or cable and connector problems.
- The Site Monitor's Mode-S address is configured in most ADS-B receiver systems and an alarm is sent to the control and monitoring system to alert of an adverse external effect in case the site monitor is not detected within a specified time.
- The Site Monitor also includes an internal failsafe monitoring function to prevent the transmission of wrong data and preventing unintended RF transmissions.