

MiComm IP Box

In 2018, the PSTN/
ISDN Networks
shut down. Are
you **Ready?**





MiComm IP Box

Mita-Teknik offers a low cost drop-in IP communication solution designed to replace obsolete PSTN/ISDN modems in wind parks.

IP Remote Communication Needed

From 2018, many operators will shut down the telephone and ISDN networks, thus leaving many older turbines without the ability to be controlled/monitored remotely via analog/ISDN modems.

To solve this, Mita-Teknik introduces a cost effective and easy-to-install solution to replace the obsolete communication equipment in any turbine, and reconnect it with existing SCADA solutions running Windows 32 or 64bit.

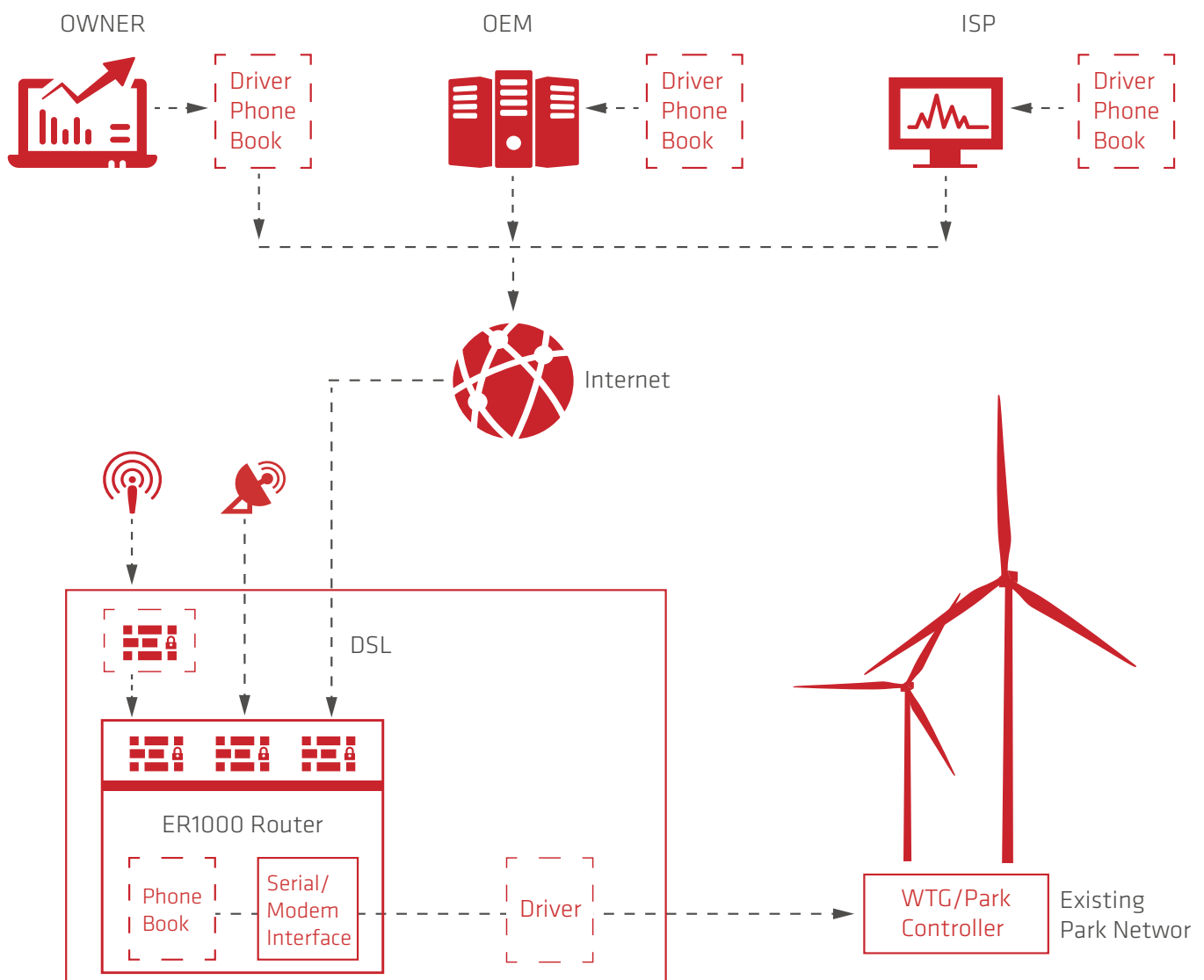
The remote connection gets established using modern DSL connections, satellite links or by using the mobile modem option, that connects the turbine via mobile networks to the Internet.

The solution does not only replace the existing modem, it also adds new advanced features for selected protocols. By using state of the art protocol switching, technology concurrent access to the turbines is now available, enabling one user to download e.g. production earnings data while the OEM or ISP is performing remote service tasks on the same turbine.

Key Benefits:

- › **Drop-in Replacement of PSTN/ISDN Modems:**
Upgrades older modem solutions to modern IP without further investments.
- › **Popular Turbine OEMs Supported:**
Support for popular brands like Vestas, Servion, Nordex, Neg-Micon, Tacke and many others.
- › **Flexible Choice of IP Connection:**
Your choice of DSL, satellite or wireless using WLAN or mobile 2G/3G/4G.
- › **Multi User Access:**
No more busy lines! With MiComm up to five concurrent remote clients; the OEM, ISP and owner can connect simultaneously.
- › **Ready for Major Windows Platforms:**
Windows XP, Vista, 7, 8, 8.1 & 10 (32/64 bits versions).
- › **Popular SCADA Platforms:**
MiScout, Gateway, WPMS, ServiSys, Andromeda, Vestas VOB and other systems that uses Windows modem drivers.
- › **Designed for Wind Turbines:**
Designed for the harsh environment and up to 20 years of operation and spare parts availability.
- › **Easy to Install:**
Attaches easily with magnets (option) or screws to existing panels/brackets.

Technical Overview Drawing



Add More Value to MiComm

MiScout SCADA

MiScout SCADA is a proven, reliable and cost effective solution designed to meet the rising demands in the wind industry, such as data security and analysis, predictive maintenance, forecasting and overall cost optimization. Based on your specific needs the solution is available in three packages:

- › Cloud hosted - with access over web browser and mobile devices.
- › Professional - professional setups for larger owners or ISPs.
- › Enterprise - for utility scale owners, OEMs and larger ISPs.

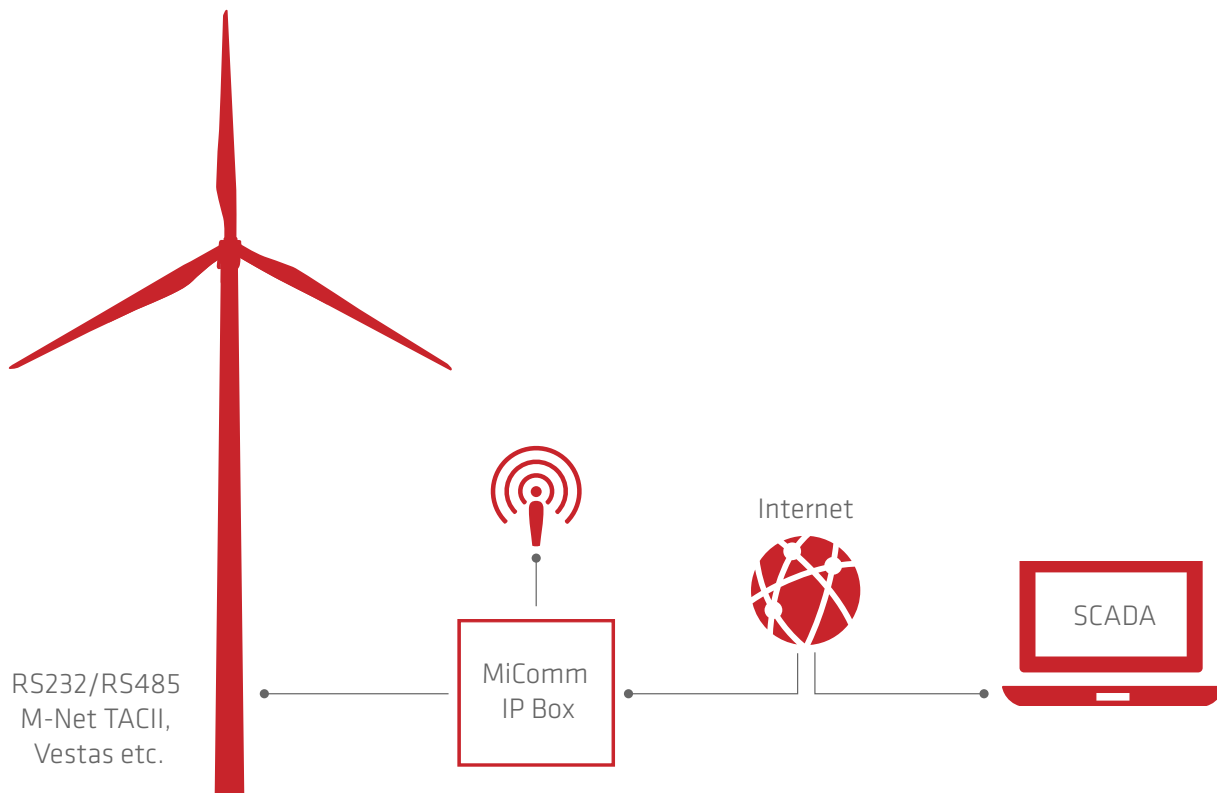
So whether you are operating a single small wind turbine or large-scale wind parks, you will find that MiScout SCADA got you covered when it comes to asset earnings monitoring, controlling and servicing your assets.

Surveillance by the Experts

Mita-Teknik offers a flexible 24/7/365 professional remote surveillance service managed by experienced wind industry specialists. The service includes a variety of programs to choose from, such as:

- › Fixed contract surveillance - know your monthly fees!
- › Time based surveillance - pay by the hour.
- › Flex surveillance - let us take over in e.g. Holydays and week-ends.
- › Fill in surveillance service - time and competencies available.
- › Training, consulting and support.

Easy Installation & Minimal Downtime



System Overview

The MiComm IP Box acts as a drop-in replacement for the existing PSTN/ISDN modems and ensures that asset management, service, data exchange and alarm notification will continue to function for the remainder of the turbines lifetime.

Inside the Turbine

The MiComm IP Box consist of a sturdy box with special equipment inside and connection kits for different turbine types. The box is easy to mount inside the wind turbine or inside e.g. the substation building using normal fixation methods or by using the option of powerful neodymium magnets to attach it to existing cabinets/WTG tower.

Inside the MiComm IP Box is a powerful ES1000 router with serial connectivity capabilities and a special software that allows it to emulate the old serial and modems, thus the turbine/park controller sees no difference.

As many older control systems only allow telephone numbers in the settings, we have developed a telephone number-to-IP address book that makes it easy to migrate to IP without changing any parameters in the WTG/park controller.

Communication to the outside world uses a free choice of DSL, external satellite link equipment or by using the option of a 2G/3G/4G adapter with appropriate data SIM card (not included).

In Office

Previously, a PC or a server communicated via a physical modem that either would dial out to the turbine/park or would wait for the remote equipment to dial in.

This functionality is fully kept by installing as many of the MiComm virtual modems as necessary – no need for investments in expensive new software systems or special adapters.

Older SCADA systems does not allow to key in IP addresses. To solve this we have also enabled the telephone number-to-IP address book functionality in the PC driver software.

When the SCADA system dials up with the usual telephone number the phone book will convert it into a hostname/IP address and data is exchanged normally. Likewise, the SCADA system can receive an alarm from the MiComm IP Box using the reverse functionality (IP-to-number).

Additional Value

The MiComm IP Box comes with additional features that e.g. allows more users to simultaneous access the turbines as well as secure firewall and VPN capabilities. This adds cyber security to the park and allows the system to be more flexible.

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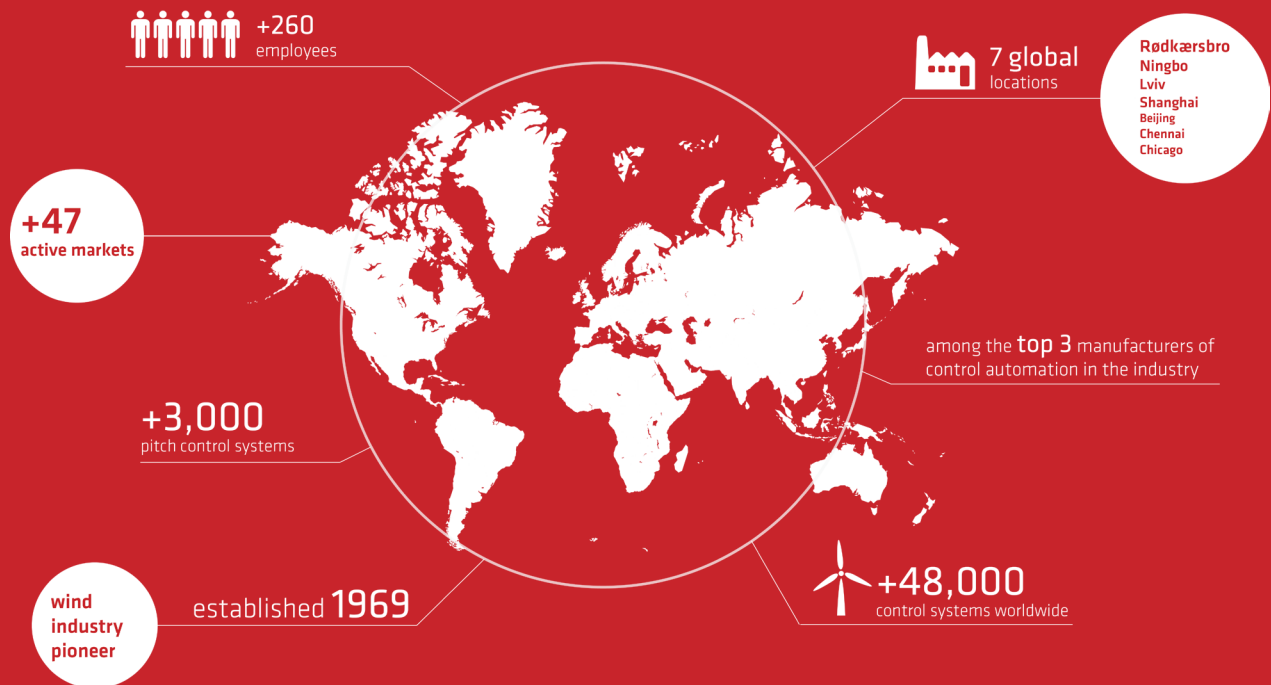
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We Make Wind Competitive

