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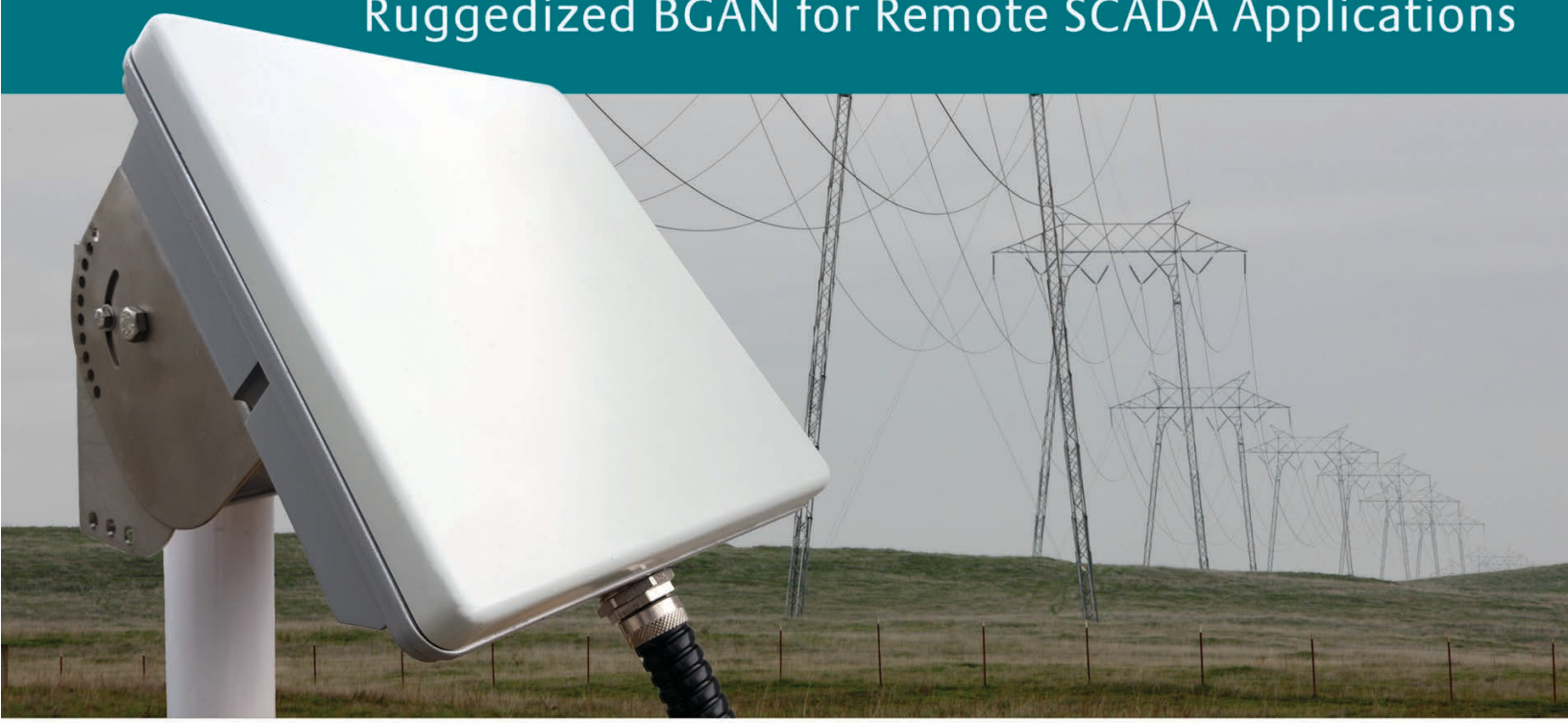
SABRE™ RANGER 5000

Ruggedized BGAN for Remote SCADA Applications



The Wideye™ SABRE™ Ranger 5000 is a Class 2 BGAN M2M terminal, with a ruggedized mechanical enclosure designed to be "touched once and left" in all weather conditions. The terminal operates on both the Inmarsat standard BGAN or M2M service, which offers global coverage and is ideally suited for SCADA applications in remote unmanned locations. With Addvalue's IP watchdog feature, the terminal can ensure reliable and stable connectivity for extended periods of operation.

The Wideye™ SABRE™ Ranger 5000 is fully compatible with the Remote Terminal Manager (RTM) and M2MAP Platforms, which allows the user to graphically view the location of the terminal and monitor the terminal status. The terminal can also be controlled or configured remotely through SMS commands and the logs can be retrieved remotely for debugging.

The rugged stainless steel mounting bracket option is specially designed for the Wideye™ SABRE™ Ranger 5000, which makes the installation and antenna pointing easier.

MAIN FEATURES

- Remote configuration and debugging
- 24/7 Always-On Capability
- IP watchdog for fail-safe operation
- PDP activation/deactivation via SMS
- Configure settings/Reboot via SMS
- Fully compatible with Remote Terminal Manager (RTM) and M2MAP Platform
- Single unit with integrated antenna (all-in-one)
- NEMA Type 4X Corrosion Resistance
- Class I Div. 2
- Ruggedized (IP66) mechanical enclosure for prolonged outdoor harsh weather installation
- Enhanced Vibration and Shock Resistance
- Secure Remote Access restricted with authorized numbers
- Wind loading of up to 125mph (200kph) with optional mounting bracket.
- RS232/ RS485 Serial to IP Server
- Multiple digital and analog I/O configurations

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BGAN M2M for SCADA

The Wideye™ SABRE™ Ranger 5000 brings BGAN M2M technology to the field of remote unmanned SCADA applications. It comes with enhanced firmware that provides reliable continuous 24/7 operation and connectivity with the BGAN network. With built-in 8 x GPIOs, 1 x Analog Input, 1 x RS232, 1 x RS485 with Modbus and 2 x Ethernet ports, it is ideally suited for connecting a plurality of devices for control and monitoring in remote unmanned locations.

All Weather

With IP66 and NEMA Type 4X compliance certifications, the terminal is fit for long term outdoor installations in all weather conditions.

APPLICATIONS

Utilities

- Recloser Control
- Transformer Monitoring
- Distribution Automation
- Solar & Wind Monitoring
- AMI (Advanced Metering Infrastructure)
- Hydro Power – Power Capacity Planning
- Sub-Station Monitoring

Oil and Gas

- Pipeline Monitoring
- Flow Measurement
- Field Service
- Wellsite Monitoring & Control

Mining

- Asset tracking
- Geo fencing
- Remote Automation Control

Environmental/Agriculture

- Water Management, Flood Warning
- Earthquake, Tsunami monitoring
- Farming

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Technical Specifications

Frequency Band
Transmit: 1626.5MHz – 1660.5MHz & 1668MHz - 1675 MHZ
Receive: 1525MHz – 1559MHz

Antenna
Type: Built-in patch antenna

Bearer Data Rate
M2M SIM
Standard IP: Up to 464/484kbps (send /receive)

BGAN SIM
Standard IP: Up to 464/484kbps (send /receive)
Symmetric Streaming IP: 32, 64, 128kbps

GNSS Air Interface
Integrated GNSS receiver and antenna
Supports GPS / Beidou / Glonass

Services
Standard IP, Streaming IP (BGAN SIM), SMS

Interfaces
2 x Ethernet Ports (RJ45)
1 x Power Supply Input (2 wires) Terminal Block
1 x Power Supply Output for External (2 wires) Terminal Block
1 x Antenna Pointing Switch
5 x Pointing LEDs
1 x Antenna Pointing Buzzer
1 x Safe mode button
1 x SIM card holder

2 x 12 PIN Terminal Block
1 x RS232 / RS485 with Modbus – software configurable built-in Serial-to-IP Server
1 x RS232
4 x GPIO – Output
4 x GPIO – Input
1 x Analog Input Port
1 x Local wakeup - Input

Firmware Upgrades
Over-the-air or via Ethernet RJ45

Supports 3GPP AT commands
OS Agnostic (supports access via Web-MMI)

Environmental
Operating Temp: -40°C to +75°C
Operating Humidity: 95% (Non-condensing at +40°C)
Storage Temp: -40°C to +80°C
Water & Dust: IP66 compliant

Electrical
DC input: +10.8V to +31.2V
Power (max): 30W
DC output: +12V/1A

Power Consumption
Receive: < 6 W
Transmit: < 25 W
Standby mode: < 1 W
Low power standby Mode: < 50mW

Weight
~2.5 Kg

Dimensions
240.4(L) x 238.4(W) x 70.8(H) mm

Wind Loading
Up to 125 mph (200kph) with optional mounting bracket

Regulatory Approvals
CE
FCC
IC (Industry Canada)
NEMA Type 4X
RoHS
IP66
Class I Div. 2 Certified

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