





SABRE™ Ranger 5000 - Rugged and Weatherproof

SABRE™ Ranger 5000, the successor of SABRE™ Ranger M2M, just gets better! It is a compact all-IP, BGAN Machine-to-Machine (M2M) satellite terminal which provides reliable and secure IP data connection and it is an IP66 rated ruggedized terminal designed to withstand all types of weather conditions. The rugged mounting bracket (optional accessory) is made of stainless steel and it is designed for ease of setting up and effortless antenna pointing for outdoor installation.

The Connected World - Legacy Device Connectivity

The "Internet of Things" (IoT) refers to billions of Internet connected devices, ranging from industrial sensors to surveillances equipment, warning or alarm systems and a wide range of measuring devices. Moving from a world of isolated systems − to one where systems communicate with each other and the cloud server − allows companies to make more efficient and productive use of their assets and business processes. SABRE™ Ranger 5000 comes with a host of legacy device interfaces, such as built-in GPlOs, analog input port, RS232 and Ethernet ports, where business operations can continue to benefit from bringing both legacy and new equipment together on the same network. It also comes with a RS485 (Modbus) interface that supports direct connection

of multiple sensors without the need of using a separate Remote Terminal Unit (RTU).

The ultra-low idle power consumption (~1W) of SABRE™ Ranger 5000 terminal allows you to use a small solar panel to power up the system and makes it perfect for providing end to-end IP connectivity to sites that are off the grid.

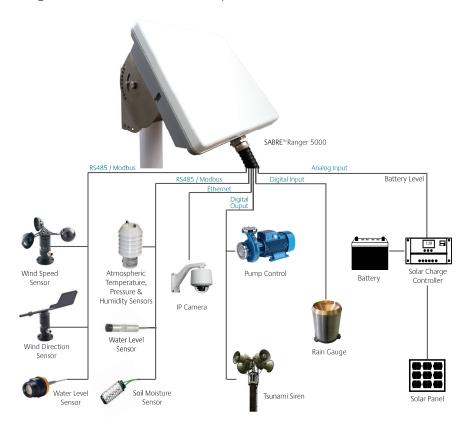
Peace of mind - Robust and Reliable

It is a robust and reliable terminal that brings BGAN M2M technology to the field of SCADA applications for gathering data in real time from remote unmanned locations.

It is fully compatible with the Remote Terminal Manager (RTM) and M2M Access Platform (M2MAP), which allows the user to graphically view the location of the terminal and monitor the terminal status. The terminal can be controlled or configured remotely through SMS commands and the logs can be retrieved for debugging.

SABRE™ Ranger 5000, one of the key components of connectivity to realize the power of the IoT!

Wide range of sensors and actuators can be directly connected to SABRE™ Ranger 5000 terminal. Some examples are shown below:



APPLICATIONS

Utilities

- Recloser control
- Transformer monitoring
- Distribution automation
- Solar & wind monitoring
- Advanced metering infrastructure (AMI)
- Hydro power-capacity planning
- Sub-station monitoring

Oil and Gas

- Pipeline monitoring
- Flow measurement
- Wellsite monitoring & control

Mining

- Asset tracking
- Geo fencing
- Remote automation & control

Environmental/Agriculture

- Water management and flood warning
- Earthquake warning
- Tsunami monitoring
- Smart Farming
- Weather monitoring

Package Contents

- SABRE™ Ranger 5000 terminal
- Quick Start Guide
- Certificate of Inspection Sheet

Accessories

■ Mounting bracket



Addvalue Innovation Pte Ltd. 202 Bedok South Ave 1, #01-11 Singapore 469332 Tel: +65 6509 5700 Fax: +65 65095701 addvaluetech.com

© 2021 Addvalue Innovation Pte Ltd. All rights reserved. Addvalue may have pending patent applications, trademarks or registered trademarks, copyrights, or other intellectual property rights covering subject matter in this document. The furnishing of this document does not give you any license to these intellectual properties. This material may contain unintended errors or omissions and is subject to change without notice. It is provided as is and without any express or implied warranties, including merchantability, fitness for a particular purpose and non-infringement. Addvalue shall not be liable for any special, indirect, incidental or consequential damages as a result of its use. Addvalue Enabled logo, Wideye, the Wideye logo and Sabre are either trademarks or registered trademarks of Addvalue Technologies Ltd and/or its affiliates in Singapore and/or other countries. Immarsat, the Inmarsat logo registered trademarks of Inmarsat Global Limited in the United Kingdom and/or other countries, and are used by Addvalue Innovation Pte Ltd under license.



liberating communications

Technical Specifications

Frequency Band

1626.5MHz - 1660.5MHz & 1668MHz - 1675 MHZ

1518MHz - 1559MHz

Antenna

Built-in patch antenna Type:

Bearer Data Rate

M2M SIM Standard IP:

Up to 448/464kbps (send /receive)

BGAN SIM

Standard IP: Up to 448/464kbps (send /receive) Symmetric Streaming IP: 32, 64, 128kbps

GNSS Air Interface

Integrated GNSS receiver and antenna Supports GPS / Beidou / Glonass

Standard IP, Streaming IP (BGAN SIM), SMS

Interfaces 2 x Ethernet Ports (RJ45) 2 x 12 PIN Terminal Block

1 x RS232 / RS485 with Modbus

1 x RS232 (debug) 4 x GPIO – Output 4 x GPIO – Input

1 x Analog Input Port 1 x Local wakeup - Input 1 x Power Supply Input (2 wires) Terminal Block 1 x DC Output

1 x Antenna Pointing Switch

5 x Pointing LEDs 1 x Antenna Pointing Buzzer 1 x Safe mode button

x SIM card holder 1 x Micro USB Port (reserved)

Firmware Upgrades

Over-the-air or via Ethernet RJ45

Supports 3GPP AT commands

OS Agnostic (supports access via Web-MMI)

Environmental

-40°C to +75°C Operating Temp:

Full operation when temp <+55°C Operating Humidity:

95% (Non-condensing at +40°C) -40°C to +80°C

Storage Temp: Water & Dust: IP66 compliant

Electrical

+10.8V to +32V DC input: Power Source (min):

30W (excluding*) +12V/1A (for external devices) *DC output:

Power Consumption

Receive: 20 W (typical) ~ 1 W Transmit: Standby mode: Low power standby Mode: < 50mW

Dimensions

241(L) x 239(W) x 71(H) mm

Up to 125 mph (200kph) with mounting bracket supplied by Addyalue

Regulatory Approvals

IC (Industry Canada) NEMA Type 4X RoHS

Inmarsat Type Approval