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SABRE™ RANGER

Ruggedized BGAN for Remote SCADA Applications

The SABRE™ Ranger is a class 3 BGAN terminal with a ruggedized mechanical enclosure build for long term outdoor all weather installation. It is designed for SCADA applications in remote unmanned location. The firmware is specially designed such that it can provide reliable and stable BGAN connectivity continuously for long period without user intervention. To ensure that users are always in control of SABRE™ Ranger, Addvalue developed 2 features that enable users to control the terminal remotely: the PDP context of the SABRE™ Ranger can be activated or deactivated remotely via SMS; and in times when users need to reboot the terminal, the rebooting process can also be initiated via SMS. The SABRE™ Ranger also comes with a mounting frame that's specially designed for easy antenna pointing.

FEATURES

Standard BGAN features
- Simultaneous voice & data communications
- Data rate of up to 384 kbps
- Built-in Ethernet and Analog Phone interfaces
- Controllable via 3GPP AT commands

SCADA features
- Enhanced firmware for reliable continuous long term BGAN network connection
- PDP activation/deactivation via SMS
- Reboot terminal via SMS
- Ruggedized (IP65) mechanical enclosure for prolonged outdoor harsh weather installation
- NEMA Type 4X Corrosion Resistance
- Enhanced Vibration and Shock Resistance

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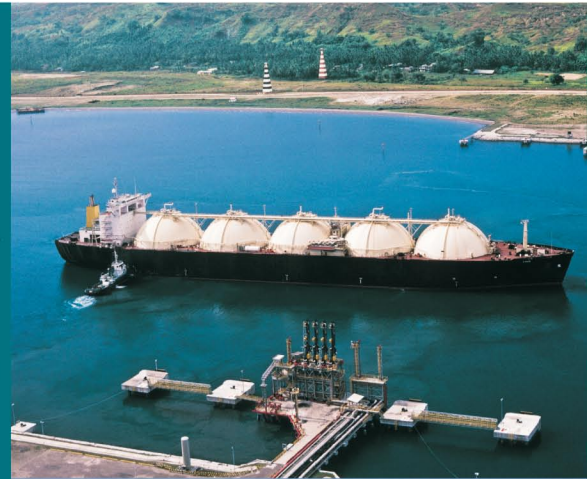
BGAN for SCADA

The SABRE™ Ranger brings BGAN technology to the field of remote unmanned SCADA applications. It comes with an enhanced firmware that provide reliable continuous 24/7 operation and connectivity with the BGAN network.

Remote SMS Control

The PDP context of the terminal can be activated/deactivated via SMS which allows for remote activation/deactivation which provides cost saving. In instances where users need to reboot the terminal, the user can trigger the reboot by sending a SMS.

Autonomous M2M operation with Wideye™ IOTA™

This terminal can be seamlessly integrated with the Wideye™ IOTA™, which is a M2M application enabler. The IOTA™ is an embedded computing device with an ARM9 processor. Together, they form a platform whereby SCADA applications can be developed and used.

All Weather

With IP65 and NEMA Type 4X compliance certifications, the terminal is fit for long term outdoor installations in all weather conditions.
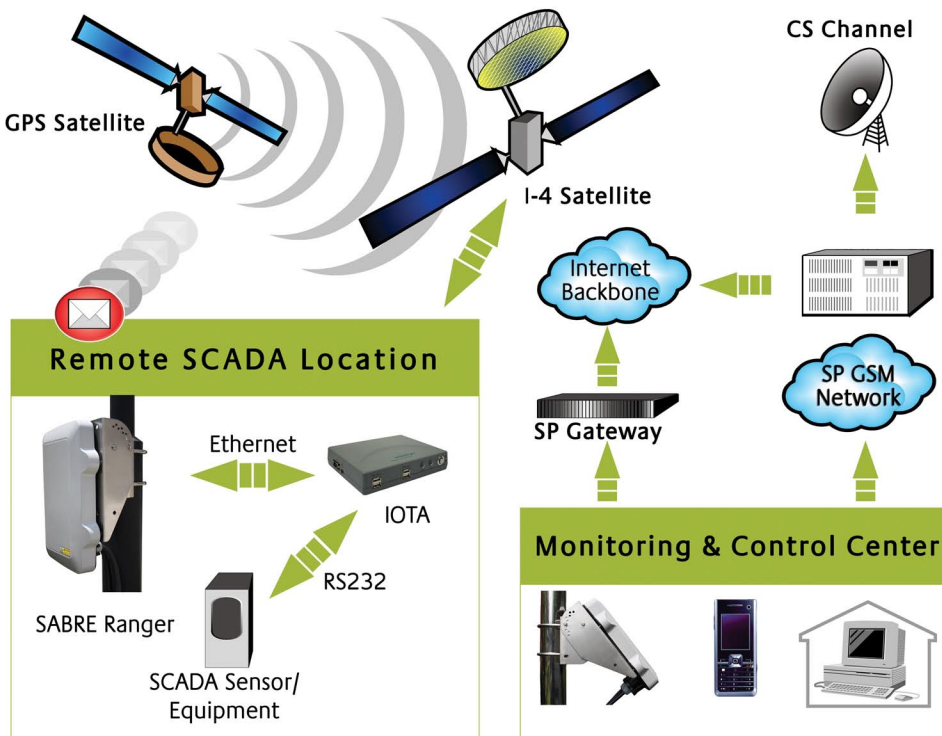
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Technical Specifications

Frequency Band
Receive: 1525MHz - 1559MHz
Transmit: 1626.5MHz - 1660.5MHz

Antenna
Type: Built-in patch antenna

Bearer Data Rate
Receive: 384 kbps (Max)
Transmit: 240 kbps (Max)

GPS Air Interface
Integrated GPS receiver and antenna

Streaming IP
32 kbps, 64 kbps

Ethernet / LAN
1 x RJ45 Ethernet Port

Phone
1 x RJ11 Analog Phone Port

Supports 3GPP AT commands

Operating System Support
Microsoft Windows,
WinCE,
Linux,
Mac OS

Environmental
Operating Temp: -40°C to +75°C
                  -40°F to 167°F

Operating
Humidity: 95%
                  (non-condensing at 40°C or +104°F)
Storage Temp: -40°C to +80°C
Storage Humidity: 5% to 95% (RH)
Water & Dust: IP65

Electrical
DC Input: 12 ~ 15 V_DC

Power Consumption
Standby: 6 W
Operating: 22 W

Weight
1.5 Kg / 3.3 lbs

Dimensions
305 x 186 x 49 mm
12 x 7.32 x 1.93 in

Certification of Compliance
CE
FCC
IC (Industry Canada)
CSA (Safety mark - cCSAus)
IP65
NEMA Type 4X
RoHS

Export Control Classification Number
5A002a.1

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