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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. At the same time, the PDP context of the SABRE™ Ranger can be activated or deactivated remotely via SMS. The SABRE™ Ranger comes in two variants: one with heater for operation from -40°C to +75°C and one without for operation from -20°C to +75°C.

FEATURES

Standard BGAN features

- Simultaneous voice & data communications
- Data rate of up to 384 kbps
- Built-in Ethernet and Analog Phone interfaces
- Supports voice, email, messaging, VPN, FTP, VoIP, FoIP and video media streaming

SCADA features

- Enhanced firmware for reliable continuous long term BGAN network connection
- PDP activation/deactivation 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.

Controllable via AT commands

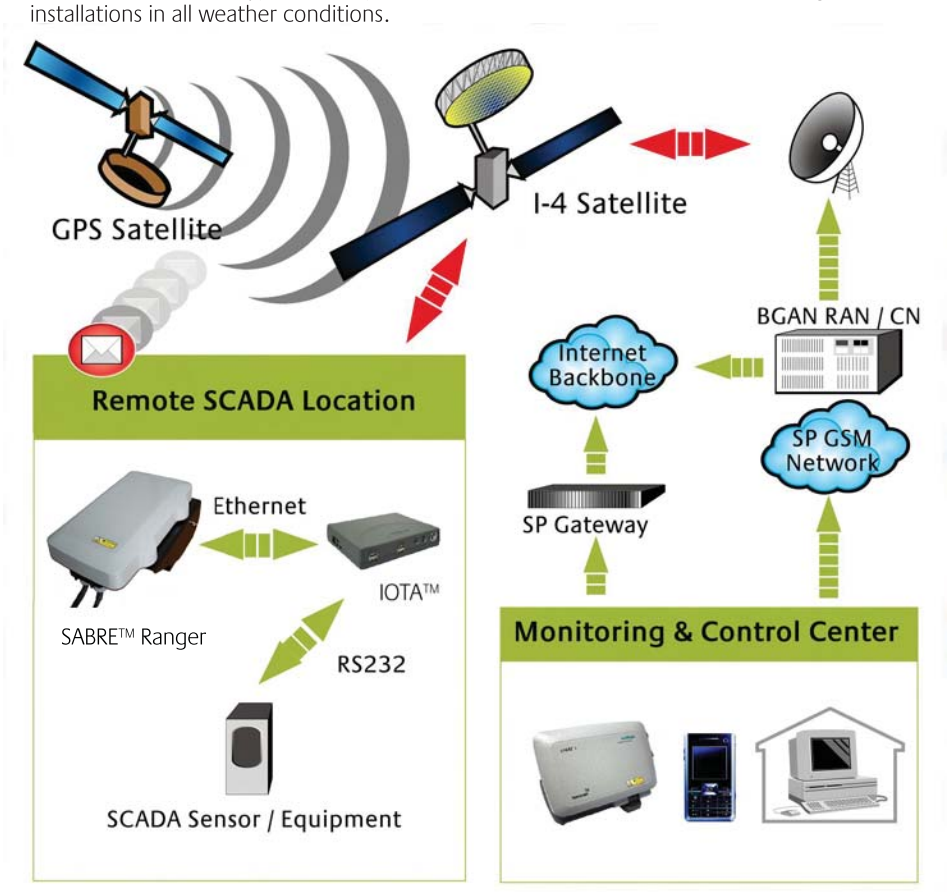
The SABRE™ Ranger can be controlled via AT commands. When used with an embedded computing device with preprogrammed AT commands software, it can be programmed to perform various communication function with the BGAN network.

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.



addvalue enabled

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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

Application Support
VPN Client, VoIP, FoIP, MPEG Streaming, Email, Messaging, Conferencing, Web Browsing.

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

Environmental

Operating Temp:	Non Heater:	-20°C to +75°C -4°F to 167°F
	Heater:	-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: 15 VDC (power adapter)

Power Consumption
Standby: 6 W
Operating: 22 W
Heater: additional 20 W (max)

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

DOC#: WE071109061003