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liberating communications

SABRE™ I
Remote BGAN for SCADA

The SABRE™ I Remote is a dual purpose class 3 BGAN terminal. It can be a user terminal with a MMI interface or used for SCADA applications. It has an enhanced firmware which can provide reliable continuous 24/7 operations and connectivity with the BGAN network.

The SABRE™ Shield provides protection to the SABRE™ I Remote so that it can be installed outdoors for all weather conditions.

FEATURES

Standard BGAN features

- Simultaneous voice SMS & data communications
- Data rate of up to 384 kbps
- Built-in Ethernet, Bluetooth and Analog Phone interfaces
- Supports voice, SMS, email, messaging, VPN, FTP, VoIP, FoIP and video media streaming
- Designed for the non-technical user
  - Swiveled antenna mount facilitates easy pointing
  - Simple to use menu interface
  - Light weight, robust and reliable

Additional SCADA features

- Enhanced firmware for reliable continuous BGAN network connectivity
- Remote PDP activation/deactivation via SMS
- Reboot terminal via SMS

SABRE™ SHIELD features

- IP 66
- Easy installation with mounting bracket
- Single multi function cable
- Robust industrial grade connector

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BGAN for SCADA

The SABRE™ I Remote brings BGAN technology to the field of remote unmanned SCADA applications. It is user controllable via AT commands for customized satellite applications.
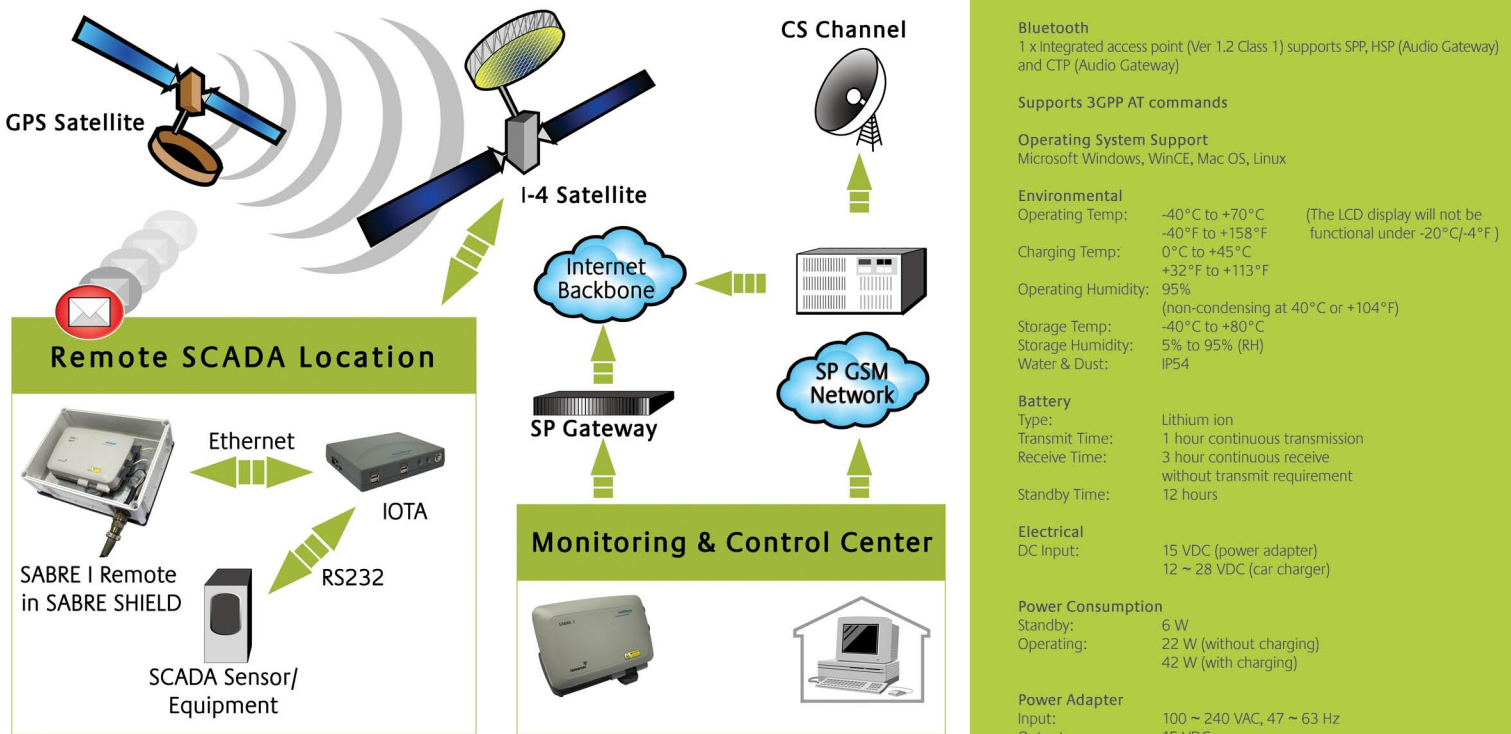
Remote SMS Control

The terminal can be controlled remotely via SMS to activate/deactivate IP data connection or to perform SCADA operations. In instances where users need to reboot the terminal, the user can trigger the reboot by sending a SMS.

Autonomous Machine-to-Machine Operations in conjunction with Addvalue's IOTA

The SABRE™ I Remote can be seamlessly integrated with the IOTA™, an Addvalue's Machine to Machine Application Enabler device. Software applications can be developed on the IOTA embedded ARM-9 processor WinCE platform for customized SCADA solution.

All Weather

When used with SABRE™ SHIELD, an IP66 weather-proof box, the SABRE™ I Remote can be installed outdoor in all weather SCADA applications.

GPS Satellite

I-4 Satellite

CS Channel

Remote SCADA Location

Ethernet

IOTA

SABRE I Remote in SABRE SHIELD

RS232

SCADA Sensor/ Equipment

Internet Backbone

SP Gateway

SP GSM Network

Monitoring & Control Center

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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

Bluetooth
1 x Integrated access point (Ver 1.2 Class 1) supports SPP, HSP (Audio Gateway) and CTP (Audio Gateway)

Supports 3GPP AT commands

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

Environmental
Operating Temp:	-40°C to +70°C	(The LCD display will not be
	-40°F to +158°F	functional under -20°C/-4°F)
Charging Temp:	0°C to +45°C	
	+32°F to +113°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:	IP54	

Battery
Type:	Lithium ion
Transmit Time:	1 hour continuous transmission
Receive Time:	3 hour continuous receive without transmit requirement
Standby Time:	12 hours

Electrical
DC Input:	15 VDC (power adapter)
	12 ~ 28 VDC (car charger)

Power Consumption
Standby:	6 W
Operating:	22 W (without charging)
	42 W (with charging)

Power Adapter
Input:	100 ~ 240 VAC, 47 ~ 63 Hz
Output:	15 VDC

Mechanical
Weight:	1.65 Kg / 3.63 lbs
Dimensions:	259 x 195 x 58 mm

Specifications for SABRE™ SHIELD with 10m cable

Environment
Operating Temp:	-40°C to +70°C (Shield)
	-40°C to +80°C (Cable)
Storage Temp:	-40°C to +80°C
Operating humidity:	20% and 90%.
Water & Dust:	IP66

Mechanical
Dimensions: (Shield)	380 x 280 x 130 mm with High Impact strength

Certificate of Compliance
CE
IP66
RoHS
UV Resistance

Export Control Classification Number
5A002a.1