BlueCard

GPRS Communication Station User's Manual

BS-3300

Please read this manual carefully, before starting to operate the station.

Main Features

The BS-3300 is able to upload data collected from guard tour readers over the Internet remotely and real time via GPRS. A computer with TCP/IP Server Utility and Patrol Management Software installed need to be connected to the Internet and assigned a Static Public IP Address.

First-Time Usage

Before download the data from reader, we recommend you to initialize the station to make sure the station does not have any useless records.

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GPRS Overview

GPRS (General Packet Radio Service) is a new service designed for Global System for Mobile Communications (GSM) networks. GSM is a digital cellular technology that is used worldwide. The most common application of GPRS is expected to be Internet access. There is a detail framework of the GRPS working procedure. BS-3300 could use the SIM card and work as a mobile station to send data by GPRS. BlueCard BS-3300 could work with 900/1800/1900MHz frequency GSM network.
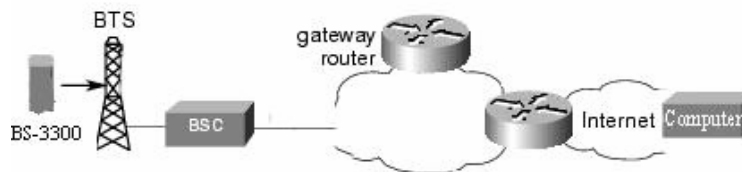
The mobile network allows GPRS connectivity.

BTS: Base Transceiver Station
BSC: Base Station Controller

Description of the BS-3300 hardware

Status LED Lights
(in the descriptions below, "up" indicates the direction on the BS-3300 where the status LED lights are located):
- Red LED – Upper-Left
    ~ Flashing: communicating over the mobile phone network.
    ~ Constant on: the BS-3300 has data that needs to be uploaded.
    ~ Constant off: the BS-3300 does not have data that needs to be uploaded.
- Green LED – Lower-Left
    ~ Flashing once per second: the BS-3300 is charging.
    ~ Flashing quickly: low battery.
    ~ Constant on: battery fully charged.
- Red LED – Upper-Right
    ~ Flashing: the GSM module is working correctly.
    ~ Constant on: the network cannot be found.
    ~ Constant off: the GSM module is not working.
- Blue LED – Lower-Right
    ~ Flashing once per second: the BS-3300 is operating normally/standby status.
    ~ Flashing quickly: the BS-3300 is communicating with a guard tour reader.
    ~ Constant on: malfunction.
    ~ Constant off: malfunction.

Audio Signals

There are two types of audio signals: long beep and short beep.

Some of the audio signals below have multiple meanings depending on the situation.

- Short Beep (once)
    ~ Guard tour reader found, but the reader does not contain data that needs to be uploaded.
    ~ GSM module initialization succeeded.
- Short Beep (twice consecutively)
    ~ Guard tour reader found, and the reader contains data that needs to be uploaded.
- Short Beep (three times consecutively)
    ~ The BS-3300's memory is full, its data needs to be uploaded.
    ~ No SIM card or reading SIM card failed.
- Short Beep (twice consecutively) + One Second Stop + Short Beep (three times consecutively)
    ~ SIM card has restriction such as SIM card has been locked, etc.
- Short Beep (three times consecutively) + One Second Stop + Long Beep (three times consecutively)
    ~ No Server response received.
- Short Beep (once) + One Second Stop + 1 Long Beep
    ~ The BS-3300 has been turned on.
- Short Beep (once) + 1 long beep
    ~ Network registration denied.
- Long Beep (once)
    ~ Data transfer from the reader to the BS-3300 has been completed.
- Long Beep (twice consecutively)
    ~ Network cannot be found.
- Long Beep (three times consecutively)
    ~ GSM module initialization failed.
- Long Beep (four times consecutively)
    ~ GPRS connection failed. It could be not enough fees inside the SIM card, Server disconnected, or GSM network problem.
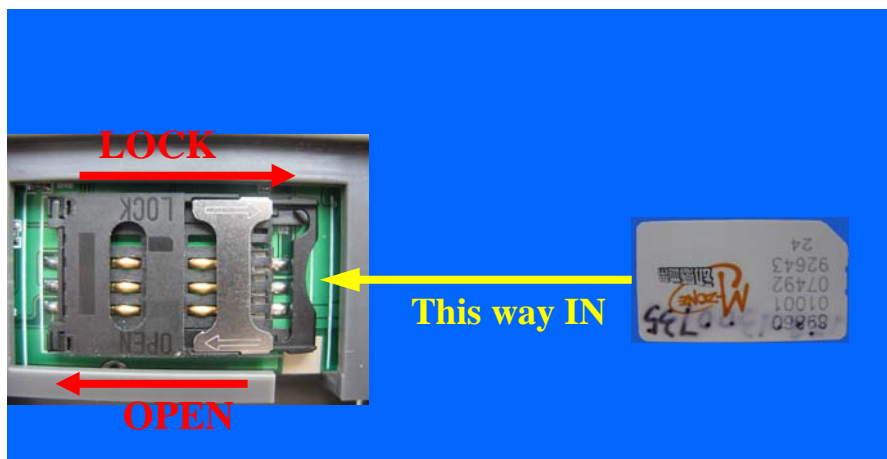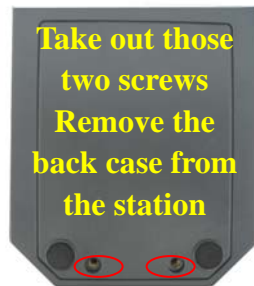
Power Source

- The BS-3300 is able to use multiple types of power supplies:
    ~ Rechargeable battery
    ~ USB connection to the computer.
    ~ 7.5V AC adapter.
    ~ Car adapter.
- The BS-3300 will turn on after being connected to a power source.
- The rechargeable battery in the BS-3300 automatically recharges whenever an external power source is connected, including the 7.5V AC adapter, car adapter, and the USB connection.

Operating Instructions

Installing TCP/IP Server Utility & Download GPRS Settings from TCP/IP Server

Please refer to the TCP/IP Server Utility User's Manual for the details on GPRS settings.

Inset SIM Card

Take out those two screws Remove the back case from the station

Inset SIM card here

LOCK

This way IN

OPEN

When you have inset the SIM card, please replace the back case on the station.

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Collecting data from guard tour readers
Compatible readers include models BP-2002S, BP-2002F, BP-2002-W, and
BP-2002B-W.

➢ Turn on the BS-3300
➢ Set the reader into the indentation on the BS-3300. For reader model BP-2002S,
   please place its reading head between the status lights, and set its top flush against
   the inside edge of the BS-3300.
➢ If there is data that needs to be transferred from the reader to the BS-3300, its
   blue LED light will start flashing rapidly, indicating that data is being transferred.
   When the transfer process is complete, the BS-3300 will make one long beep,
   then one short beep periodically every few seconds, indicating that the reader
   connected no longer has any data to upload, and should be removed. If you have
   another reader that needs to have its data transferred, please place it in the unit at
   this time.
➢ If the BS-3300 makes three short beeps, it means that its memory is full, and will
   need to have it uploaded before being able to collect any more data from readers.

Remote data upload
After 30 seconds of finishing data collection from the reader (the upper-left red LED
turns on indicating the BS-3300 has data needs to be uploaded), the BS-3300 Station
is turned into GSM module and ready to send data via GPRS. If the GSM module
configuration succeeded, the blue LED could keep flashing. Meanwhile, the station
makes 1 short beep. If the station failed to connect with GSM network, it makes 4
long beeps and shuts down immediately.

If station has been succeeded connect with GSM network, it will try to connect with
the server computer via GPRS, and wait for response from Server. If the Server
response has been received successfully, station would makes 1 long beep, and ready
to send the data. If the station can not receive the server response, it would make 3
short beeps and 1 long beep and shut down automatically.

Every time the data has been sent out, the station will wait for response from the
server PC. The remained data will not be sent out unless the response from the server
PC has been received. This cycle continues until finishing sending out all the data.
During this process, if no server response received over a period of time, the station
would make 3 short beeps and 1 long beep, and then shut down.

Finish sending data: After uploading all the data, the station makes 2 short beeps, and
the Blue LED flashes once per second, which indicates the station is in standby status.

If the Green LED is flashing quickly, it means the battery is low, and the station will shut down automatically in 10 more seconds.

Local data upload

BS-3300 is capable of uploading their store data to the PC directly.
- Connect the unit to the PC using the provided USB cable.
- Start the patrol management software, and select the appropriate communication method.
- Open the "connect" screen in the patrol management software, which will automatically collect data from the BS-3300.

Troubleshooting

Status LED Lights are not flashing

This means the system does not succeed in initialization restoration. Please disconnect then reconnect its power source in order to reinitialize the unit.

Not able to upload data from guard tour readers

Check to see if the station is operating normally, i.e. check to see if the status LED Lights are flashing

Check to see if the reader is placed properly in the unit. The reading head of the reader should be between the status lights of the unit, and its top should be flush against the inside edge of the unit.

Not able to upload data to the Server PC

This could be the following reasons:
1) GSM network cannot be found or SIM registration failed. The status LED indicators and Audio signals are: upper-right Red LED flashes once per second, at the same time, Blue LED flashes quickly and the station emits 1 long and 1 short beeps or 2 long beeps.
2) SIM card has not been applied GRPS from your Local Mobile Service Provider. After the Blue LED flashed quickly, the station emits 4 long beeps.
3) SIM card does not have enough fees for running the GPRS service. After the Blue LED flashed quickly, the station emits 4 long beeps.
4) The Server is disconnected.

BS-3300 cannot be found by Patrol Management System.

Check to see if the Status LED lights flashing properly, if not, please disconnect and reconnect the power supply to reinitialize the unit.
Check the condition of the hardware installation, please right-click 'My Computer', and then select Properties->Hardware->Device Manager to see if the driver for the Communication Station has been installed in the PC.
Please contact with the technology support if you can not solve the problem by using above solutions.

BS-3300 Data Sheet

Size:	159x79x33mm
Color:	Dark Grey
Connection With Readers:	RFID Wireless Connection
Connection With PC:	USB
Memory	Flash Memory
Storage Capacity	49713 records
Card reading format	EMID RFID
Operating temperature	-20°C to 70°C
Operating humidity	0 to 95%

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