



Configuration Guide for BlueTree Modems

The BlueTree modems can be configured in two ways. The first is by using BlueTree's BlueVue Device Manager. This application will allow you to check basic settings and status relating to cellular configuration. You can also configure basic settings to get the device to report to the Track Star system using the Trimble TAIP format. The second method involves connecting to the modem using an application like Hyper Terminal and sending AT commands. Consult Bluetree's documentation for a complete list of commands as well as in depth descriptions of the commands mentioned in this guide.

Reset to factory defaults

`AT&F`

Wireless Network Connection Mode

Set mode to Always On

`AT+BCMODE=1,0`

Define GPS Resolution

set the GPS resolution to 1 sec

`AT+BGPSR=2,1,1`

`AT+BGPSTP=">FPV00010000<"`

Set Unique Device ID or TAIP ID

`AT+BGPSID=A020`

Enable Synchronization flag

START Bytes = 0x5442, END Bytes = 0x4542'

`AT+BSYNCF=1,"0x5442","0x4542"`

Setup reporting destination 1

This example sets the IP to 69.95.107.162 and port to 2500

The valid port range for Blue Tree devices is 1501-65535

`AT+BRPRDS=1,1,"69.95.107.162",2500,0`

Configure message contents and select reporting destination

Set report # 6 with ack to dest #1

Example defines report #6 as Modem Info, RF Info, I/O Info, GPS Info, and GPS

Odometer and sends it to the address defined in "destination 1" and requires the server to send an ACK when received.

`AT+BEVRPR=6,"MI1-RF1-IO1-GP1-GO1","1",0,1,10`

Time/Distance

There are various ways to define the reporting intervals. Consult the BlueTree documentation for complete details.

Example sets a 20 second timer for report #6 as defined with AT+BEVRPR
AT+BEVENT=3,"TMS","T20","S",0,6

Set odometer initial value and enable

AT+BGPSOD=0

AT+BGPSOE=1

Wait one minute after ignition off to power down

AT+BIGNIT=1

Ignition

AT+BEVDIS=1,"IGN=0"

AT+BEVDIS=2,"IGN=1"

AT+BEVENT=1,"DIS01","R","S",0,6

AT+BEVENT=2,"DIS02","R","S",0,6

Battery low/normal

AT+BEVAIS=4,"PWR<=10"

AT+BEVAIS=5,"PWR>10"

AT+BEVENT=4,"AIS04","R","S",0,6

AT+BEVENT=5,"AIS05","R","S",0,6

Define input events

Example configures each Digital Input to trigger report #6 when input transitions from False to True

AT+BEVDIS=11,"DI1=0"

AT+BEVDIS=12,"DI1=1"

AT+BEVDIS=13,"DI2=0"

AT+BEVDIS=14,"DI2=1"

AT+BEVDIS=15,"DI3=0"

AT+BEVDIS=16,"DI3=1"

AT+BEVDIS=17,"DI4=0"

AT+BEVDIS=18,"DI4=1"

AT+BEVENT=11,"DIS11","R","S",0,6

AT+BEVENT=12,"DIS12","R","S",0,6

AT+BEVENT=13,"DIS13","R","S",0,6

AT+BEVENT=14,"DIS14","R","S",0,6

AT+BEVENT=15,"DIS15","R","S",0,6

AT+BEVENT=16,"DIS16","R","S",0,6

AT+BEVENT=17,"DIS17","R","S",0,6

AT+BEVENT=18,"DIS18","R","S",0,6

Write changes

AT&W