Beam Communications

Remote Commands

Version: 1.5

Remote Satellite Systems
1455 N. Dutton Ave., Ste. A, Santa Rosa, CA 95401
(707) 545-8199 www.remotesatellite.com

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Revision History

Version	Date	Reason
1.1	1st of January 2006	Initial revision
1.2	2nd of March 2006	Inclusion of speed dial commands for the RSTx00
1.3	29th May 2006	Inclusion of RST03x remote commands
1.4	6th June 2006	Short status command updated. Previous incorrect command title.
1.5	19th June 2008	Added "P" prefix to all RST03x/S/35 commands. Added RST030S Remote Command Format section, with clarification of sup. And security codes).

Remote Command Structure

Overview

RST100/200/300/310/030(s)/035(s) models support remote SMS commands. These commands allow for remote configuration of the units similar to the functionality of the BMS. If your system uses an Iridium based simcard then you can send SMS messages to the unit via the Iridium online SMS service at http://messaging.iridium.com

If you are using a Telstra based simcard you can send it SMS messages via any Telstra GSM mobile.

RST100/200/300/310 Remote Command Format

The basic format for remote commands are as follows.

RST <SMS/RMT> <response location> <supervisor pin> <command> <command>...

Example:
RST SMS beamsbd@beamcomm.net 3170 A <- This would return the status information to the email address.

RST RMT 3170 A <- This will not return any response unless SBD is enabled, in which case the response will be delivered to the SBD address.

RST030/035 Remote Command Format

When sending remote commands to an RST030 and RST035 please use the following format.

RST <SMS/RMT> <response location> <RSTx00 supervisor pin>
<command> <command>... <RST03x supervisor pin> <command> <command>…

Example:
RST SMS 0407611112 3170 **P1**3170 **P**A
This would return the status command of the RST030/035 to mobile 0407611112.

RST SMS 0407611112 3170 A 4125 **P1**3170 **P**A
This would return the status of the RSTx00 and set the RSTx00 Ringer Freqency to 25hz. It would also return the RST03x status.
(This example assumes the supervisor password, and the security codes are default "3170". The "P1" is required to precede the security code).

RST030S Remote Command Format

When sending remote commands to an RST030S please use the following format.

RST <SMS/RMT> <response location> <supervisor pin> <RST03x security pin>
<command> <command>…

Example:
RST SMS 0407611112 3170 **P1**3170 **P**A
This would return the status command of the RST030S to mobile 0407611112.

(This example assumes the supervisor password, and the security codes are default "3170". The "P1" is required to precede the security code).

RSTx00 Remote Commands

System

Factory Defaults

Australian

Command: **81**
Description: Reset all settings to Australian factory defaults

Example: 81y
Description: Resets all settings to Australian factory defaults

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	y/n	100,200,300,310

International

Command: **82**
Description: Reset all settings to International factory defaults

Example: 82y
Description: Resets all settings to International factory defaults

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	y/n	100,200,300,310

Flash Upgrade

Command: **9**
Description: Instructs the unit to go into flash upgrade program mode.

Example: 9y
Description: Instructs the unit to go into flash upgrade program mode.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	-	100,200,300,310

Line Settings

Gain

Dial tone

Command: **71**
Description: Set the attenuation for the dial tone. Accepts +/- dB from 0dB. When read this command returns the current attenuation value.

Example: 713
Description: Add 3dB to the dial tone attenuation. Attenuation will be 81

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
7	-20	1	RW	dB	numeric	100,300,310

Unavailable

Command: **72**
Description: Set the attenuation for the unavailable tone. Accepts +/- dB from 0dB. When read this command returns the current attenuation value.

Example: 723
Description: Add 3dB to the unavailable attenuation. Attenuation will be 81.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
7	-20	1	RW	dB	numeric	100,300,310

Downlink

Command: **73**
Description: Set the attenuation for the downlink tone. Accepts +/- dB from 0dB. When read this command returns the current attenuation value.

Example: 733
Description: Add 3dB to the unavailable attenuation. Attenuation will be 81.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
7	-20	1	RW	dB	numeric	100,300,310

Uplink

Command: **74**
Description: Set the attenuation for the uplink tone. Accepts +/- dB from 0dB. When read this command returns the current attenuation value.

Example: 743
Description: Add 3dB to the uplink attenuation. Attenuation will be 81.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
7	-20	1	RW	dB	numeric	100,300,310

Impedance

Line Term TN12

Command: **75**
Description: Set the line termination to TN12. If not set line termination is set to 600ohm.
NOTE: Should be set in conjunction with hybrid balance.

Example: 75y
Description: Set Line Term to TN12.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,300,310

Hybrid Balance TN12

Command: **76**
Description: Set the hybrid balance to TN12. If not set hybrid balance is set to 600ohm.

Example: 76y
Description: Set hybrid balance to 600hms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,300,310

Show

Command: **77**
Description: Return the current line termination and hybrid balance settings.

Example: 77
Description:

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	R	-	y/n	100,300,310

Call Processing

Local Processing

Localise

Command: **61**
Description: Enable local call processing

Example: 61y
Description: Turn on localise

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,300,310

Bar

Command: **62**
Description: Enable call baring. This means that only quick dial numbers will be allowed.

Example: 62y
Description: Enable call baring.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,300,310

Min Digits

Command: **63**
Description: Set the minimum digits required to place a call.

Example: 638
Description: Set the minimum digits required to be dialled to 8.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
10	3	1	RW	decimal	numerical	100,300,310

Auto Dial

Command: **64**
Description: When enabled the unit will automatically dial the number stored in quick dial slot 0 when the handset is lifted.

Example: 64y
Description: Enable autodial.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,300,310

Info 1st Digit

Command: **65**
Description: Set the info prefix 1st digit.

Example: 655
Description: Set the info prefix 1st digit to 5.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
9	0	1	RW	decimal	numerical	100,300,310

STD 1st Digit

Command: **66**
Description: Set the STD prefix 1st digit.

Example: 663
Description: Set the STD prefix digit to 3.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
9	0	1	RW	decimal	numerical	100,300,310

Emergency

Command: **67**
Description: Set the emergency number shortcut.

Example: 67911
Description: Set the emergency number shortcut to 911.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999	0	1	RW	decimal	numerical	100,300,310

Voice Mail

Command: **68**
Description: Set the voicemail number shortcut.

Example: 68101
Description: Set the voicemail shortcut to 101.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999	0	1	RW	decimal	numerical	100,300,310

Area Code

Command: **69**
Description: Set the local state area code.

Example: 693
Description: Set the area code to 3.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
9	0	1	RW	decimal	numerical	100,300,310

IDD 1

Command: **6A**
Description: If the value of this command are dialled at the start of the phone number the RST assumes the number being called is international rather than national or local. The number will therefore include the country and area codes. Typical settings could be '0011' or '0018' for Australia, or '011' for USA.

Example: 6800
Description: Set IDD1 to 00

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
9999	0	1	RW	decimal	numerical	100,300,310

Voicemail

Command: **6C**
Description: Set the voicemail number that the RST unit will dial to retrieve voicemail.

Example: 6C2345678
Description: Sets the voicemail number to 2345678

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999999999999	0	1	RW	decimal	numerical	100,300,310

Country Code

Command: **6D**
Description: This is the country code used for any local or national numbers dialled when the number is sent to the network.

Example: 6D61
Description: Set the country code value to 61

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999999999999	0	1	RW	decimal	numerical	100,300,310

Emergency

Command: **6E**
Description: This is the number called when the Emergency shortcut is dialled on the RJ11 phone.

Example: 6E0061000
Description: Set the emergency number value to 0061000

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999999999999	0	1	RW	decimal	numerical	100,300,310

SMSC

Command: **6F**
Description: Set the SMS Service centre number

Example: 6F887766554433221
Description: Set the SMSC number to 887766554433221

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999999999999	0	1	RW	decimal	numerical	100,300,310

POTs SMS

Command: **6G**
Description: This is the SMS service centre number to be used for SMS over POTs.

Example: 6G8800112233
Description: Set the SMS over POTs service center number to 8800112233

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999999999999	0	1	RW	decimal	numerical	100,300,310

SMS Mailbox

Command: **6H**
Description: The SMS mailbox number is used to determine which mailbox to check.

Example: 6H1
Description: Set the SMS mailbox number to 1.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999999999999	0	1	RW	decimal	numerical	100,300,310

IDD 2

Command: **6B**
Description: If the value of this command are dialled at the start of the phone number the RST assumes the number being called is international rather than national or local. The number will therefore include the country and area codes. Typical settings could be ‘0011’ or ‘0018’ for Australia, or ‘011’ for USA.

Example: 6B80
Description: Set IDD2 to 80

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
9999	0	1	RW	decimal	numerical	100,300,310

Status

Log

View Log (SMS only)

Command: **E1**
Description: Returns the recorded log details.

Example: E1
Description: Returns the log details.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	R	-	-	100,200,300,310

Clear Log

Command: **E2**
Description: Clears the log record

Example: E2
Description: Clears the log record

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	-	100,200,300,310

Total Call Time

Command: **E3**
Description: Returns the total analog (RJ11) phone call duration.

Example: E3
Description: Returns the total analog (RJ11) phone call duration.

Max	Min	Increment	R/W	Units	Type	Models

Value	Value					Supported
-	-	-	R	Seconds	-	100,200,300,310

Verbose Status

Command: **A**
Description: Returns a detailed summary of the RST unit. This includes temperature, input volts, signal strength, UTC time, firmware version, pcb revision, serial no., last config, RST state, errors and LBT IMEI.

Example: A
Description: Returns the status information on the unit.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	-	100,200,300,310

Short Status

Command: **H**
Description: Returns a detailed summary of the RST unit. This includes temperature, input volts, signal strength, UTC time, firmware version, pcb revision, serial no., last config, RST state, errors and LBT IMEI.

This status is designed to be sent via SMS and will fit within the 160 character limit.

Example: H
Description: Returns the status information on the unit.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	-	100,200,300,310

Programming and Advanced Options

Power Save

LBT on Wake Time

Command: **D1**
Description: Specifies how often the unit should turn of for. 0 will disable this function.

Example: D15
Description: Sets the incoming wake time to 5 minutes.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
254	0	1	RW	-	Minutes	100,300,310

On-Hook Econ

Command: **D2**
Description: Specifies if on-hook econ functionality should be enabled.

Example: D2y
Description: Enabled on-hook econ.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,300,310

SLIC On

Command: **D4**
Description: Specifies the ON pulse for the SLIC when in economy mode.

Example: D4320
Description: Specifies the ON time for the SLIC to be 320ms.

Max	Min	Increment	R/W	Units	Type	Models

Value	Value					Supported
10200	40	40	RW	Milliseconds	Numeric	100,300,310

SLIC Off

Command: **D5**
Description: Specifies the OFF pulse for the SLIC when in economy mode.

Example: D5320
Description: Specifies the OFF time for the SLIC to be 320ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
10200	40	40	RW	Milliseconds	Numeric	100,300,310

SLIC On

Command: **D4**
Description: Specifies the ON pulse for the SLIC when in economy mode.

Example: D4320
Description: Specifies the on time for the SLIC to be 320ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
10200	40	40	RW	Milliseconds	Numeric	100,300,310

SLIC Holdup

Command: **D6**
Description: Specifies how often to send the SLIC pulse. Setting to 0 will ignore this function.

Example: D620
Description: Will set the SLIC holdup time to 20seconds.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
255	0	1	RW	Seconds	Numeric	100,300,310

Start Voltage

Command: **D7**
Description: Specifies the voltage when the powersave economy mode will be enabled.

Example: D7117
Description: Sets the start voltage to 11.7 volts

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
255	80	1	RW	VoltsX10	Numeric	100,300,310

Stop Voltage

Command: **D8**
Description: Specifies the voltage when the powersave economy mode will be disabled.

Example: D8120
Description: Sets the stop voltage to 12.0 volts

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
255	80	1	RW	VoltsX10	Numeric	100,300,310

Faulty Voltage

Command: **D9**
Description: Sets the voltage input level that will be recognized as a fault.

Example: D9105
Description: Sets the fault voltage level to 10.5volts

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
255	80	1	RW	VoltsX10	Numeric	100,300,310

Wake Hour List

Command: **DA**
Description: Sets the wake hour list value.

Example: DA1111
Description: Sets the wake hour list to 1111

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
999999999999999	0	1	RW	Digits	Numeric	100,300,310

LBT

On Pulse

Command: **C1**
Description: The duration the ON pulse should be held when applying power to the LBT.

Example: C1
Description: Sets the ON pulse to 80ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	Milliseconds	Numeric	100,200,300,310

Off Pulse

Command: **C2**
Description: The duration the OFF pulse should be held when apply power to the LBT.

Example: C280
Description: Sets the OFF pulse to 80ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	Milliseconds	Numeric	100,200,300,310

On Delay

Command: **C3**
Description: Sets the delay when turning on the LBT.

Example: C3
Description: Sets the ON delay to 5 seconds.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
255	1	1	RW	Seconds	Numeric	100,200,300,310

Off Delay

Command: **C4**
Description: Sets the delay when turning off the LBT.

Example: C4
Description: Sets the delay when turning off the LBT to 2200ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	Milliseconds	Numeric	100,200,300,310

Inverse Signal LED

Command: **C5**
Description: Inverses the colour of the signal LED on the RST unit.

Example: C5y
Description: Inverses the colour of the signal LED.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,200,300,310

Enable PIN Lock

Command: **C6**
Description: Enables or disables the sim pin.

Example: C6y1111
Description: Enables pin lock and sets the simpin to 1111

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,200,300,310

AT Timeout

Command: **C7**
Description: Set the timeout value for remote AT commands used through the AT command menu function.

Example: C710
Description: Set the AT timeout value to 10 seconds.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
50	1	1	RW	Seconds	Numeric	100,200,300,310

AT Command

Command: **C8**
Description: Send an AT command to the LBT

Example: C8AT+CSQ
Description: Send the AT command "AT+CSQ" to the LBT

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	1	RW	-	Alphanumeric	100,200,300,310

CTS De-assert

Command: **C9**
Description: Specifies if the CTS line to the LBT should be asserted or de-asserted.

Example: C9y
Description: De-asserts the CTS line.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,200,300,310

Ring for Data

Command: **CA**
Description: Specifies if the LBT should signal the ring line for an incoming data call on the commport.

Example: CAy
Description: Enabled ring for data.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,200,300,310

Reset RST

Command: **B**
Description: Resets the RST unit.

Example: By
Description: Reset the RST unit.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	100,200,300,310

RJ11 Advanced Options

Timeouts

DTMF 1st Digit

Command: **51**
Description: How long to generate dial tone in milliseconds before the 1st digit of the phone number is pressed on the phone.

Example: 5120000
Description: Sets the DTMF 1st Digit timeout value to 20000ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
25000	0	1	RW	milliseconds	numeric	100,300,310

DTMF Digit

Command: **52**
Description: How long to generate dial tone in milliseconds before the unit assumes the phone number has been fully entered.

Example: 522000
Description: Sets the DTMF digit timeout value to 2000ms

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
25000	0	1	RW	milliseconds	numeric	100,300,310

Call Terminate

Command: **53**
Description: How long to wait in minutes with nothing heard before the unit hangs-up the call assuming it has been left in a call accidentally. Set to 0 to disable this feature to leave a call up indefinitely.

Example: 5220
Description: Set the call termination timeout value to 20minutes.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
254	2	1	RW	minutes	numeric	100,300,310

Active Sample Period

Command: **54**
Description: Adjusts the length of sample window used to determine activity for call termination.

Example: 548
Description: Set the active sample period to 8.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
50	1	1	RW	seconds	numeric	100,300,310

Active Min Count

Command: **55**
Description: Adjusts how many sounds heard in the activity sample period constitute someone actually talking into the receiver (rather then a door slamming being misinterpreted as speech).

Example: 552
Description: Set the activity minimum count to 2 seconds

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
250	1	1	RW	seconds	numeric	100,300,310

SMS Ding

Command: **56**
Description: Optional reminder to the user that an SMS or voicemail is waiting. Sets how often in minutes the phone will make a very short ring (or ding). Set to 0 to disable this feature.

Example: 562
Description: Set the SMS ding value to 2minutes.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
254	0	1	RW	minutes	numeric	100,300,310

Data RX

Command: **57**
Description: The timeout duration for monitoring incoming data on the CommPort. If no data is received within this time period communication to the LBT via the serial port will be blocked. A value of 0 will ignore this timeout.

Example: 5740
Description: Set the data rx timeout value to 40 seconds.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
255	0	1	RW	seconds	numeric	100,200,300,310

DTR De-assert

Command: **58**
Description: The period of time DTR can be de-asserted before CommPort communication will be switched back to the internal microcontroller.

Example: 583000
Description: Set the DTR de-assert timeout value to 3000ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
25000	0	1	RW	milliseconds	numeric	100,200,300,310

Line Reverse Delay

Command: **59**
Description: Time in milliseconds to reverse the RJ11 line polarity after an outgoing call is established. Used by payphones to start call tolling.

Example: 59100
Description: Set the line reversal delay to 100ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
5000	20	1	RW	milliseconds	numeric	100,200,300,310

RJ11 Tones

Ringer

Frequency

Command: **41**
Description: Set the ringer frequency for the RJ11 phone.

Example: 411700
Description: Set the ringer frequency to 25Hz for the RJ11 phone.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
500	400	1	RW	hertz	numeric	100,300,310

1st On

Command: **42**
Description: Set ringer 1st ON duration for the RJ11 phone.

Example: 421700
Description: Set the ringer 1st ON duration for the RJ11 phone to 1700ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

2nd On

Command: **43**
Description: Set ringer 2nd ON duration for the RJ11 phone.

Example: 431700
Description: Set the ringer 2nd ON duration for the RJ11 phone to 1700ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

1st Off

Command: **44**
Description: Set ringer 1st Off duration for the RJ11 phone.

Example: 441000
Description: Set the ringer 1st Off duration for the RJ11 phone to 1000ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

2nd Off

Command: **45**
Description: Set ringer 2nd Off duration for the RJ11 phone.

Example: 451000
Description: Set the ringer 1nd Off duration for the RJ11 phone to 1000ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

Dial tone

Frequency

Command: **46**
Description: Set the dial tone frequency for the RJ11 phone.

Example: 46425
Description: Set the dial tone frequency for the Rj11 phone to be 425Hz.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
500	400	1	RW	hertz	numeric	100,300,310

ON

Command: **47**
Description: Set the dial tone ON duration for the RJ11 phone.

Example: 47200
Description: Set the dial tone ON duration for the RJ11 phone to 200milliseconds

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

OFF

Command: **48**
Description: Set the dial tone OFF duration for the RJ11 phone.

Example: 48200
Description: Set the dial tone OFF duration for the RJ11 phone to 200milliseconds

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

ON

Command: **47**
Description: Set the dial tone ON duration for the RJ11 phone.

Example: 47200
Description: Set the dial tone On duration for the RJ11 phone to 200milliseconds

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

Stutter

Command: **49**
Description: Set the dial tone stutter duration for the RJ11 phone.

Example: 49100
Description: Set the dial tone stutter duration for the RJ11 phone to 100ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
200	20	1	RW	milliseconds	numeric	100,300,310

Unavailable

Frequency

Command: **4A**
Description: Set the unavailable frequency for the RJ11 phone.

Example: 4A425
Description: Set the unavailable frequency for the RJ11 phone to 425 Hertz.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
500	400	1	RW	hertz	numeric	100,300,310

ON

Command: **4B**
Description: Set the unavailable ON duration for the RJ11 phone.

Example: 4B400
Description: Set the unavailable ON duration for the RJ11 phone to 400ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

OFF

Command: **4C**
Description: Set the unavailable OFF duration for the RJ11 phone.

Example: 4C400
Description: Set the unavailable ON duration for the RJ11 phone to 400ms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
2500	20	1	RW	milliseconds	numeric	100,300,310

Local Ring

Local Ring

Command: **4D**
Description: Enable/Disable local ring functionality.

Example: 4Dy
Description: Enable local ring functionality.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	1	RW	-	y/n	100,300,310

RST03x/S Remote Commands

System

General

Restore Factory Defaults

Command: **P8**
Description: Restores factory defaults.

Example: P8y
Description: Restores factory defaults.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	y/n	030/S,035

Flash Upgrade

Command: **P9**
Description: Instruct unit to go into flash programming mode.

Example: P9y
Description: Instructs unit to go into flash programming mode.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	y/n	030/S,035

Reset RST

Command: **PB**
Description: Reset unit

Example: PBy
Description: Reset unit

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	y/n	030/S,035

GPS Configuration

GPS Settings

Set ship baud rate

Command: **P31**
Description: Set the baud rate of the ship feed.
1= 1200
2= 2400
3= 4800
4= 9600
5= 19.2k
6= 38.4k
7= Summary

Example: P314
Description: Sets the expected ship feed baud rate to 9600

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	-	030/S,035

Location

Command: **P34**
Description: Returns the current time and lat/long

Example: P34
Description: Returns the current time and lat/long eg 6:35:14 3749.7958 14454.1926

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	R	-	-	030/S,035

SSAS Configuration

General Settings

Enable

Command: **P41**
Description: Enable/Disable SSAS functionality

Example: P41y
Description: Enable SSAS functionality.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Delimiter

Command: **P44**
Description: Set the character that will delimiter data in messages.

Example: P44,
Description: Set the delimiter to ,

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
1 character	-	-	RW	-	alphanumeric	030/S,035

Power Tolerant

Command: **P45**
Description: Enables/Disables resending the SSAS alerts if the unit powercycles.

Example: P45y
Description: Enable power tolerance. SSAS messages will continue being sent once power is resumed.

Max	Min	Increment	R/W	Units	Type	Models

Value	Value					Supported
-	-	-	RW	-	y/n	030/S,035

Clear Alert

Command: **P46**
Description: Clear SSAS alert

Example: P46
Description: Clears SSAS alerts

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	-	030/S,035

Test

Command: **P47**
Description: SSAS Test options

1. Start
2. Stop
3. Status
4. Send Message

Example: P471
Description: Starts the SSAS test procedure.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	W	-	-	030/S,035

Status

Command: **P48**
Description: Status of the SSAS alert (enabled or disabled)

Example: P48
Description: Return the current status of the SSAS.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	R	-	-	030/S,035

Inputs

Command: **P4A, P4B, P4C, P4D**
Description: Enable or disable an input

Example: P4Ay
Description: Enable input A

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Delimiter

Command: **P44**
Description: Set the character that will delimiter data in messages.

Example: P44,
Description: Set the delimiter to ,

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
1 character	-	-	RW	-	alphanumeric	030/S,035

Ship Details

Command: **P42**
Description: Sets the message details for SSAS.
1= MMSI
2= IMO
3= Ship Name
4= Call Sign
5= Country
6= Text
7= Summary
8= Header

Note: Option 7 is a read only parameter.

Example: P424Robinhood
Description: Set the SSAS shipname to Robinhood.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	-	030/S,035

Destinations

Use SBD

Command: **P431**
Description: Enable/Disable SBD as a message transport method.

Example: P421y
Description: Enable SBD as a message transport method for the SSAS alert.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Use Emergency SMS

Command: **P432**
Description: Enable/Disable emergency sms

Example: P422y
Description: Enable emergency sms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Use Owner SMS

Command: **P433**
Description: Enable/Disable owner sms.

Example: P433y
Description: Eable emergency owner sms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Use Backup SMS

Command: **P434**
Description: Enable/Disable backup sms.

Example: P434y
Description: Enable backup sms.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Message sending frequency

Command: **P435**
Description: Set the frequency the SSAS message will send once activated.

Example: P43515
Description: Set the frequency of the SSAS message to 1 every 15 minutes.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
15	2	1	RW	minutes	numeric	030/S,035

Emergency Destination

Command: **P436**
Description: Set emergency SMS destination.

Example: P436beamalert@beamcomm.net
Description: Set emergency SMS destination to beamalert@beamcomm.net

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
50 Characters	1	-	RW	text	alphanumeric	030/S,035

Owner Destination

Command: **P437**

Description: Set owner SMS destination.

Example: P437beamalert@beamcomm.net
Description: Set owner SMS destination to beamalert@beamcomm.net

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
50 Characters	1	-	RW	text	alphanumeric	030/S,035

Backup Destination

Command: **P4378**
Description: Set backup SMS destination.

Example: P438beamalert@beamcomm.net
Description: Set backup SMS destination to beamalert@beamcomm.net

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
50 Characters	1	-	RW	text	alphanumeric	030/S,035

Summary

Command: **P439**
Description: Returns the current status of sms destinations and there activation.

Example: P439
Description: Returns the current status of sms destinations and there activation

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	R	text	-	030/S,035

Vessel Tracking Configuration

General Settings

Enable

Command: **P51**
Description: Enable/Disable Vessel Tracking

Example: P51y
Description: Enable vessel tracking.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Use SBD

Command: **P52**
Description: Enable/Disable SBD as a delivery method for vessel tracking

Example: P52y
Description: Enable SBD as a delivery method for vessel tracking

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Use SMS

Command: **P53**
Description: Enable/Disable SMS as a delivery method for vessel tracking.

Example: P53y
Description: Enable SMS as a delivery method for vessel tracking.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported

-	-	-	RW	-	y/n	030/S,035

SMS Address

Command: **P54**
Description: Set the SMS destination address.

Example: P54beam@beamcomm.net
Description: Set the SMS vessel tracking destination to beam@beamcomm.net

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
50 characters	-	-	RW	-	alphanumeric	030/S,035

Log Rate

Command: **P55**
Description: Set the interval for logging positional data.

Example: P5510
Description: Log positional data every 10minutes.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
250	1	1	RW	minutes	numeric	030/S,035

Send Hours or Minutes

Command: **P56**
Description: Decide if you want your send rate duration to be in hours or minutes. This will effect Send Rate. Y = hours, N = Minutes

Example: P56y
Description: Set the send rate units to hours.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Send Rate

Command: **P57**
Description: Set the send rate for vessel tracking messages. 0 = Once.

Example: P5110
Description: Set the send rate to 10.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
250	2	1	RW	units	numeric	030/S,035

Triggered Send

Command: **P58**
Description: Enabled/Disable triggered sending.

Example: P58y
Description: Enable triggered sending.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Summary

Command: **P59**
Description: Return the status of vessel tracking.

Example: P59
Description: Returns the status of vessel tracking.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	R	-	-	030/S,035

Set Output

Command: **P5B**
Description: Set the units outputs

1. Analog Out (0 – 255)
2. Digital Out # (1 – 4)

3. Set On (turn on outputs y/n)

Example: P5B1 P5By
Description: Sets the analog out to 1 and turns it on.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	-	030/S,035

Message Content

ID

Command: **P5A1**
Description: Set messages ID

Example: P5A1ship100
Description: Set message ID to Ship100

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
30 characters	-	-	RW	-	alphanumeric	030/S,035

Log Time

Command: **P5A2**
Description: Include the units log time in the message.

Example: P5Ay
Description: Includes the units log time in the message.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Log Speed and Direction

Command: **P5A3**
Description: Include the units speed and direction in the message.

Example: P5A3y
Description: Include the units speed and direction in the message.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Log Height

Command: **P5A4**
Description: Include the altitude in the message.

Example: P5A3y
Description: Include the altitude in the message.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Log Analog

Command: **P5A5**
Description: Include the analog port value in the message.

Example: P5A5y
Description: Include the analog port value in the message.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035

Delimiter

Command: **P5A7**
Description: Set the character that will delimiter data in messages.

Example: P5A5,
Description: Sets , as the character that will delimiter data in messages.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
1 character	-	-	RW	-	alphanumeric	030/S,035

Summary

Command: **P5A8**
Description: Returns a brief summary of the included message fields.

Example: P5A8
Description: Returns a brief summary of the included message fields.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	R	-	-	030/S,035

Suppress Stationary

Command: **P5A9**
Description: Suppress sending messages when the unit is stationary.

Example: P5A9y
Description: Supress sending messages when the unit is stationary.

Max Value	Min Value	Increment	R/W	Units	Type	Models Supported
-	-	-	RW	-	y/n	030/S,035