PS-ELITE7837

User Manual Version 1.0

GSInstech Co., Ltd

Revision History

Version	Author	Descriptions	Date	Remarks
1.0	S.M Ko	Draft	14. Sep. 2018	

Change List

Version	Change List	Remarks

Abbreviations

Abbreviation	Term Definition	Remark
AGC	Automatic Gain Control	
ALC	Automatic Level Control	
BTS	Base Transceiver Station	
CW	Continuous Wave (un-modulated signal)	
DAS	Distributed Antenna System	
DFM	Digital Filter Module	
DL	Downlink The path covered from the BTS to the subscribers service area via the repeater	
FW	Firmware	
HPA	High Power Amplifier	
HW	Hardware	
IF	Intermediate Frequency	
LNA	Low Noise Amplifier	
LTE	Long Term Evolution	
MS	Mobile Station	
NC	Normal Close	
NO	Normal Open	
PSU	Power Supply Unit	
RF	Radio Frequency	
RFU	Radio Frequency Drive Unit	
SW	Software	
UL	Uplink The path covered from the subscribers service area to the BTS via the repeater	
VSWR	Voltage Standing Wave Ratio	

1. Regulations

This equipment complies with the following regulations.

1.1 FCC Regulations

1) FCC Part 15.21

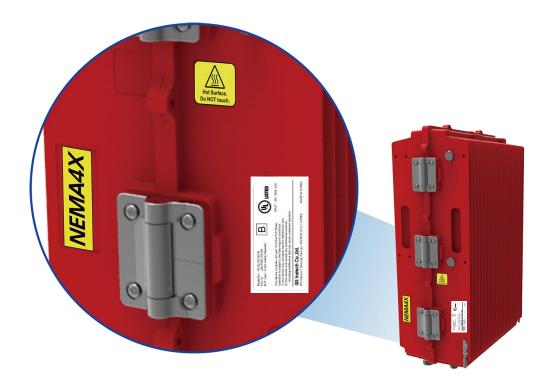
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

2) FCC Part 15.105

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

3) FCC Part 15.19

The FCC Certification label has attached right side of PS-ELITE7837. The FCC Certification label contained FCC 15.19 warning statement, Device type (A or B), FCC and UL ID



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

4) FCC Part 90.219

Booster Warming Label is attached left side of PS-ELITE7837. This label has contains FCC 90.219, IC warning statements and contact information for a trouble shooting.



① FCC Part 90.219 Class A (B9A)



GS Teletech Inc. Tech Support 1-913-469-6699 (toll free)

Part 90 Signal Booster

THIS IS A 90.219 CLASS A DEVICE

WARNING. This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. You MUST register Class A signal boosters (as defined in 47 CFR 90.219) online at www.fcc.gov/signal-boosters/registration. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.

"WARNING. This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. You MUST register Class A signal boosters (as defined in 47 CFR 90.219) online at www.fcc.gov/signal-boosters/registration.

Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation."

② FCC Part 90.219 Class B (B9B)



GS Teletech Inc. Tech Support 1-913-469-6699 (toll free)

Part 90 Signal Booster

THIS IS A 90.219 CLASS B DEVICE

WARNING. This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. You MUST register Class B signal boosters (as defined in 47 CFR 90.219) online at www.fcc.gov/signal-boosters/registration. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.

"WARNING. This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. You MUST register Class B signal boosters (as defined in 47 CFR 90.219) online at www.fcc.gov/signal-boosters/registration.

Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation."

5) FCC Part 90 Class B

Prior to equipment use the service must be registered with the FCC. This can be done through the FCC's website at https://signalboosters.fcc.gov/signal-boosters.

6) Radiation Exposure Statement

The product complies with the FCC Fixed RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user's body or set the device to lower output power if such a function is available.

7) FCC Part 90.635

Antennas must be installed in accordance with FCC 90.635. With 2.15dBi gain antennas the height of the antenna above average terrain (HAAT) must not exceed 310.7 m. For different gain antennas refer to the relevant rules.

2. Prohibitions

- Use of unauthorized antennas, cables, and coupling devices not conform to ERP/EIRP and indoor-only restrictions is prohibited.
- Preclude indications that Home/ personal use are prohibited.

2.1 Installation Warning statement



WARNING

Provides information or instructions that the reader should follow in order to avoid personal injury or fatality



CAUTION

Provides information or instructions that the reader should follow in order to avoid a service failure or damage to the system



CHECK POINT

Provides the operator with checkpoint for stable system operation



NOTE

Indicates additional information as a reference



No use for the unauthorized device

When installing the system. Must check the devices that use is authorized. This conditions apply antenna, cable, and coupling device if necessary



Circuit Breaker Installation in the Box for Overcurrent Protection

Must install the circuit breaker between the system and main AC source for separating. Make sure to install the Circuit breaker on the place to operate easily Circuit breaker be able to operate up to 20A



Terminal, Conduit and Cable size

To install the conduit is according to NAE regulation, and Terminal size is according to NEC regulation



Caution

Double Pole / Neutral fusing

3. General Information

This document is primarily written for those who are new to PS-LITE78A/B system and wish to tune up the equipment. The document is applicable to below products from GSINSTECH. Model number: PS-ELITE78A/B

3.1 Repeater Information (FCC & ISED ID)

Certification	Туре	ID	Remarks
FCC	B9A	U88-PSELITE37A	
FCC	В9В	U88-PSELITE37B	

3.2 Purpose

PS-ELITE7837 Bi-Directional Amplifier (BDA) is a repeater, which has been designed to improve signals in blanket/shadow areas inside of buildings to transmit Provider's variety frequencies. User may choose filtering configuration according to the specific site circumstances.

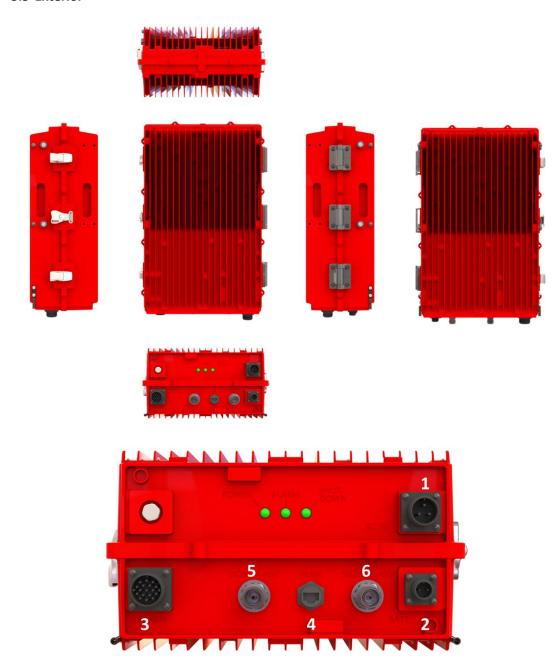
3.3 Repeater Advantages

- It provides selectable RF power levels for any wireless technology / band.
- It has individual monitoring multiple technology.
- FPGA digital filtering provides optimized RF performance.
- It allows modification of technology via customer interface.
- It is easily installed.
- Frequency is easy to add / delete / change.
- It has scalable single and multi-service design.
- Customer data service is improved by FirstNet
- It meets all users' technological requirements.

3.4 Highlights

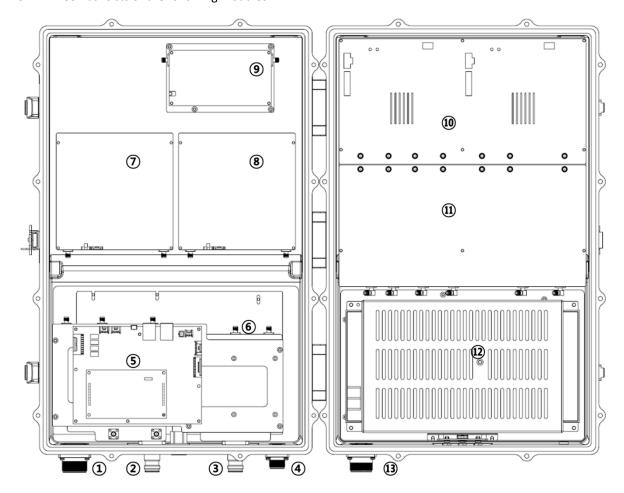
- Dual band support 700MHz and 800MHz band by WEB UI
- Simultaneous Filter Supporting 1 Wide Band and 32 Non-Contiguous Narrow Bands
- 2W output power for each band
- Fan-less
- Significant Filter Roll-off performance
- Supports Form 3 Dry Contact
- External Alarm Function supporting Dry Contact
- Digital/programmable utilizing FPGA
- Auto shutdown with alarm upon oscillation detection
- Web based GUI for intelligent configuration, SNMP supported
- NFPA compliant dry contact alarms, NEMA 4x enclosure

3.5 Exterior



No	NAMES	DESCRIPTION	SPECIFICATION
1	AC IN	AC Power Input Port	MS-3102A-10SL-3P
2	Battery	Link to battery Backup Unit	Battery
3	External Alarm	Link to External Alarm Panel	
4	Ethernet	Local Maintenance & Modem Activation	Local: RJ-45
5	Donor ANT	Donor Antenna Connection	4.3-10 DIN Female
6	Service ANT	Service Antenna Connection	4.3-10 DIN Female

3.6 Interior PS-ELITE7837 consists of the following modules:



No.	Item	Remarks	No.	Item	Remarks
1	Ext. Alarm Connector		8	DL 700 HPA	
2	Donor Antenna Port		9	UL HPA	
3	Service Antenna Port		10	Digital Filter Module	
4	Battery Backup Input	48V DC	11	RF Unit	
5	I/O Board		12	PSU	
6	Duplex Cavity Filter		13	AC Input Connector	110V AC Only
7	DL 800 HPA				

1) Donor / Service Antenna All antenna ports use a 4.3-10 Din connector. If user wants to use an N-type cable, user must use a separate adapter. (Not included)

2) Digital Filter Module & RF Unit The integration module consists of RFU and DFM.

The RFU is assembled at the bottom of the integrated module, and performs amplification, filtering, and gain control on the signal that passes through the duplexer.

The DFM is assembled on top of the integration module. DFM performs band select, band width adjustment and power detection according to user setting.

3) Cavity Duplexer

Separation of input and output signals and isolation between paths

4) HPA Module

DL 700 HPA and DL 800 HPA are made up of different modules.

It amplifies the filtered and band selected signals via RFU and DFM, and maintains the output of the system.

UL HPA provides 700M and 800M bands as one integrated module. It amplifies the filtered and band selected signals via RFU and DFM, and maintains the output of the system.

5) PSU

The PSU supply power to the system.

The PSU receives 110V AC power and supplies + 28V DC and + 6V DC to the system. In the event of an AC power failure, the system can be powered by receiving a -48V DC power through the battery. The battery voltage input to the PSU should be -48V. If + 48V is used, the electrodes must be reversed when connecting the battery. If the required battery voltage is not used or the electrode is not suitable, the PSU may be damaged or not functioning normally.

The Company shall not be held liable for the problems caused by this.

6) I/O Board (Control Board)

The control board performs functions such as system control, communication. And alarm information share through the external alarm connector.

System control and communication functions are available via the Web UI and SNMP via the system RJ - 45 Port, Alarm Information Sharing is Ext. It can be connected to the External Alarm Panel via the Alarm Connector for use.

7) Battery Backup Port

The system can use the battery backup system. In this case, the battery output should be +48V DC User can't be held responsible for any problems that arise from not following these recommendations

8) Ext. Alarm Connector

Ext. Alarm Connector is a port used to share alarm information generated by the system with external alarm panel. Alarm information is shared through dry contact. Mapping between Alarm and Connect can be confirmed by the following table.

9) WAN Network Port

The system supports Web UI or SNMP function through Ethernet to improve accessibility of external network and user. To this end, the user can connect a cable to the RJ-45 connector. Connectors and cables used should be waterproof.

10) Local Network

The system supports Web UI or SNMP function through Ethernet to improve accessibility of internal network and user. To this end, the user can connect a cable to the RJ-45 connector.

11) AC Input Connector

The input voltage of system is only 110V AC and the voltage input such as 220V AC is not approved. No liability or compensation shall be required by the Company for problems caused by not permitted input AC voltage.

4. Specifications

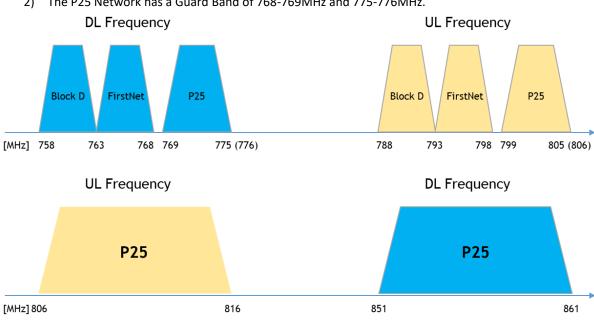
4.1 US Frequency Allocation

US frequency 4.1.1

I	tem	Specification	Remark
700 (PSBB)		758MHz ~ 768MHz	LTE
Down Link Frequency	700 (PSNB)	769MHz ~ 775MHz	P25
	800 (PSNB)	851MHz ~ 861MHz	P25
	700 (PSBB)	788MHz ~ 798MHz	LTE
Up Link Frequency	700 (PSNB)	799MHz ~ 806MHz	P25
	800 (PSNB)	806MHz ~ 816MHz	P25

4.1.2 US Service Plan

- 1) The LTE network integrates Upper D band and FirstNet to have max. 10MHz Service BW.
- 2) The P25 Network has a Guard Band of 768-769MHz and 775-776MHz.



4.2 Common Specifications

	tem	Specification	Remark
	PSBB – LTE	5 / 10MHz	
Select Bandwidth	PSNB – B9A	6.25 / 12.5 / 25 / 50 / 75KHz	
Balluwlutii	PSWB – B9B	100 / 125 / 150 / 175 / 200 / 225 / 250KHz	
	LTE (PSBB)	+34dBm / 2.5W (@total)	, 27dDay / Takal
DL Output Power	700 (PSNB)	+34dBm / 2.5W (@total)	+37dBm / Total
output i owei	800 (PSNB)	+37dBm / 2W (@total)	
	LTE (PSBB)	+30dBm / 1W (@total)	122dDm / Total
UL Output Power	700 (PSNB)	+30dBm / 1W (@total)	+33dBm / Total
Output Fower	800 (PSNB)	+33dBm / 2W (@total)	
Max RF Inpu	t Power without	-17dBm	@ Over Drive
Max RF Inpu	t Power without	+10dBm	@ No Damage
	DL Range	54dB ~ 99dB	
6 .	UL Range	50dB ~ 95dB	ALC 45 ID
Gain	Adjust Step	±1.0dB	ALC: 45dB
	Adjust Accuracy	±1.0dB	
Propagation	LTE	< 6us	
Delay	PSNB	< 230us	
	LTE	> 45dBc @ ± 5M	
Adjacent	LIE	> 50dBc @ ± 10M	
Channel Power	PSNB	> 50dBc @ Ch Offset 25kHz	
	POINB	> 50dBc @ Ch Offset 50kHz	
Fla	atness	< 3dB	
Return L	oss / VSWR	<-14dB/< 1.5:1	
Nois	e Figure	< 5dB @ Max gain	Uplink Only
Į.	EVM	≤ 8% (E-TM3.1 / DL : 64QAM, UL 16 : QAM)	LTE Only
- 11	LTE	>55dBc @ ±1MHz]
Roll Offs	PSNB	>55dBc @ \pm 6.25KHz or >55dBc @ \pm ½ Bandwidth	outside pass-band
Characteris	stic Impedance	50Ω	

4.3 Mechanical Spec.

Item		Specification	Remark
RF Co	onnector	Mini DIN (4.3-10) Type Female	
AC Powe	r Connector	MS3102A 20SL-3P	
AC Po	wer Cord	MS3106A-20SL-3S	
Battery Bac	kup Connector	MS3102A-14S-9P	
External Ala	arm Connector	MS3102A-22-14P	
Externa	al Interface	RJ-45 / USB A Type	Waterproof
Alarm	Interface	Dry Contact	20Pin
AC	Supply	110VAC ~ 120VAC, 60Hz 2.0A	±10%
DC	Supply	48V	
Out D	imension	19" x 13.2" x 7.8"	480mm x 335mm x 200mm
Net	Weight	Max. 68 lb	30kg
Material	Module	Aluminum alloy	
iviateriai	Cabinet	Aluminum alloy for casting	
Operation	Temperature	-40°F to +122°F (-40°C to +50°C)	Convection cooling
Storage Temperature		-40°F to +185°F (-40°C to +85°C)	
Humidity		5% ~ 95%	Non-Condensing
Environn	nental Spec.	NEMA4x	IP668
N	//TBF	100,000	hour

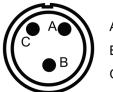
5. Port and Connectors

5.1 RF Connector

PS-ELITE7837 adopts a Mini-DIN 4.3/10 connector. If the user wants to use an N type cable or connector, they need an adapter.

5.2 AC Power Connector

PS-ELITE 7837 use only 110V voltage. If the user uses other unrecommend input voltages, PS-ELITE7837 may be damaged. The AC Power Connector of the PS-ELITE 7837 uses **CAR3102A-20-3P** and the user shall use a cable equipped with a cable **CAR3106A-20-3S** connector to terminate the power.



A: AC.L

B: AC.N

C : F.G

5.3 DC Battery Power Connector

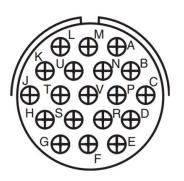
PS-ELITE 7837 use a 48V battery only. If the user uses other nonstandard input voltages, PS-EILITE7837 may be broken or damaged. If the user want to use a +48V battery, it is acceptable to cross the input electrode.

Pin No.	Pin Name	Cable Color	Remarks
1	+	Red(or White)	
2	-	Black	

5.4 External Alarm Port (Dry-Contact)

PS-ELITE7837 supports the External Alarm Box. The external alarm box is connected via the External Alarm Connector. The External Alarm Box of PS-ELITE 7837 is configured using the Dry Contact.

The connection between the External Alarm Port and the External Alarm Box is made using the UL2464 # 24 10ft cable supplied with the system.



1) PS-ELITE support external Alarm Box

Pin No.	Alarm No.	Alarm Name	Pin Name	Cable Color	Remarks
А			N.C 1	Black	
В	Alarm1	AC Power	COM 1	Brown	
С			N.O 1	Red	
D			N.C 2	Orange	
E	Alarm2	BDA	COM 2	Yellow	
F			N.O 2	Green	
G			N.C 3	Blue	
Н	Alarm3	Reserved	COM 3	Violet	
1			N.O 3	Gray	
J			N.C 4	White	
K	Alarm4	Reserved	COM 4	Black & Line	
L			N.O 4	Brown & Line	
М			N.C 5	Red & Line	
N	Alarm5	Reserved	COM 5	Orange & Line	
Р			N.O 5	Yellow & Line	
R			N.C 6	Green & Line	
S	Alarm6	Reserved	COM 6	Blue & Line	
Т			N.O 6	Violet & Line	
U	Reserved			Gray & Line	

N.C: Normal Close / N.O: Normal Open

5.5 Ethernet Port

PS-ELITE 7837 can be connected to the parent network via Ethernet, and the user can use the WEB UI to control and monitor the relays in remote or local locations. PS-ELITE 7837 use a waterproof Ethernet port to prevent the external environment from being affected. (NEMA 4x Compliance)

For complete waterproofing, the user shall use a water-proof RJ-45 cable.

6. LED and Alarm Information

6.1 LED

LED	Status	Remarks
Green	Good Condition, The system operates normally.	
Red	Critical alarm, Unable to operate properly	

6.2 LED indicate for alarm

Name	RUN	ALARM	SHUTDOWN
Power On	Green		
Boot Complete	Green	Green	Green
Normal Condition	Green	Green	Green
Over Power	Green	Green	Red
AC Fail	Green	Green	Red
DC Fail	Green	Green	Red
RESET	Green	Red	Red
Shut Down	Red	Red	Red

7. Installation

7.1 Installation

7.1.1 Antenna

- 1) The antenna used in the PS-ELITE7837 must be certified or an antenna with equivalent specifications.
- 2) Antenna gain is restricted to "Cable loss+2.15dB"
- 3) The company shall not bear any liability for any problems arising from the use of an uncertified antenna.

7.1.2 Isolation

If the system wants to operate in the max gain state, the system requires sufficient isolation between the donor and service antennas.

The system recommends isolation be higher than 15dB above the gain of the system.

If isolation is not sufficiently ensured, the AOC function operates to reduce the gain to a level suitable for the ensured isolation.

7.1.3 Equipment Needed for Repeater Setup

Parameter	Item	Quantity	Remark	
Major Component	PS-ELITE7837 Repeater	1 EA	Provided by GST	
Additional Components	Wall Mounting Bracket	1 EA	Provided by GSI	
	AC Power Cable 1.8m	1 EA		
	DC Power Cable 2m	1 EA		
	External Alarm Cable 2 m	1 EA		
Antenna	Donor ANT	1 EA	Not Included	
	Service ANT	1 EA		
RF Cable Antenna connection Cable		TBD	Not Included	
Testing and Measuring Equipment Spectrum Analyzer		1 EA	Not Included	

7.1.4 Check points before turning on the Repeater

1) System Power Check

AC electrical power to the repeater should be 110V, input electricity only after power verification.

2) Input RF Signal Range

Optimal input RSSI into the repeater is $-62dBm \sim -17dBm$ for 700MHz/800MHz. User should verify input condition of Donor ANT. If the input RSSI exceeds -17dBm, impose the using external attenuators should be used.

3) Isolation check between DONOR/SERVEICE ANT

The system must need that 114dB (Gain+15dB) isolation is secured to use 99 dB of the maximum profit of the system. User should check its condition before installation.

7.1.5 Open for Service

- 1) Check points before open:
 - ① Verification of system installation status :
 - Electricity, In/Out antennas, cable connection, and equipment mount status.
 - ② Verification of system accessories:
 - User should check all necessary accessories.

- ③ Check receipt signal level :
 - ➤ Installer should check whether environmental conditions are in accordance with system specification to ensure that system operation will be optimized.
- 2) Check points after open:
 - ① Check external LED
 - > RUN: Green light ON (Off: All LED off)
 - > ALARM: Green light in normal status, Red light in alarming
 - > SHUT DOWN: Green light in normal status, Red light in Shutdown status

7.2 Ground

The PS-ELITE7837 is designed to operate at 110VAC @ 1.5A maximum current and must always be operated with the ground wire properly connected.

8. Web UI

8.1 Setting up the Repeater

8.1.1 Quick UI/Configuration

Use the following steps to commission the Repeater after all the cabling and antennas are fixed in place and the Repeater is supplied with proper electrical power. The repeater will need a good quality stable Downlink RSSI input level in the range of -85dBm to -62dBm.

- 1) Connect your laptop to the repeater with a Crossover Ethernet cable.
- 2) Verify that your laptop has all wireless connections off and is Obtaining an IP address automatically, or is using a proper fixed IP address such as: Use the following IP address: 192.168.2.1 with a Subnet Mask of 255.255.255.0
- 3) Open Internet Explorer and go to: 172.16.6.81
- 4) User name: admin5) Password: admin

8.1.2 Quick Setup

- 1) Go to the RF Configuration page.
- 2) Before the Amplifier (HPA) can be turned on, set the Uplink and Downlink attenuation (ATT) to the maximum value and click Apply.
- 3) Select the correct Band Block and set the ALC Downlink and Uplink Limits to the desired level and click Apply. (To adjust the Output Power, change the ALC Downlink and Uplink Limits to the desired levels).
- 4) To check the Repeater's status, click on the Status page.
- 5) To change the Repeater's gain/attenuation, adjust the Uplink and Downlink attenuation in equal amounts not more than 5dB at a time and click Apply.

8.2 User Interface Configuration

8.2.1 Log in the Web-UI

1) Configuring the Laptop to connect



- Go to Local Area Connection.
- 2. Click on 'Properties'
- General Authentication Advanced

 Connect using:

 Broadcom Net/Areme 57xx Gigabit C

 Configure...

 This connection uses the following items:

 Circler for Microsoft Networks

 International Properties

 Properties

 Peocription

 Transmission Control Protocol Unit provides communication across diverse interconnected networks.

 Circler for Microsoft Networks

 Circler for Microsoft Networks

 Circler for Microsoft Networks

 Notify me when this connection has limited or no connectivity
 - 3. Highlight 'Internet Protocol (TCP/IP)'
 - 4. Click on 'Properties'.
- Internet Protocol (TCP/IP) Properties

 General Alternate Configuration

 You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

 ① Use the following IP address:

 IP address:

 Subnet mask:

 Qelaut gateway:

 ② Obtain DNS server address automatically

 Use the following DNS server addresses:

 Preferred DNS server:

 Alternate DNS server:

 Advanced...

 OK Cancel
 - Choose 'Obtain DNS server address automatically'.
 - 6. Click 'OK'

Figure 1. Laptop Configuration for connecting the Web-UI

2) Enter the IP Address "192.168.2.1" into your browser address bar

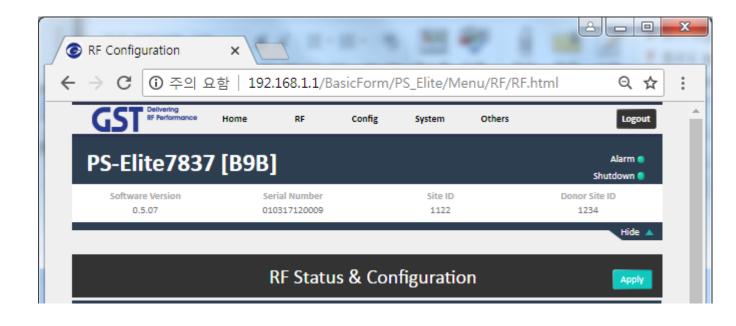
8.2.2 Page Login



- 1) Access the portal by going to http://192.168.2.1
- 2) Sign in with username "admin" and Password "admin"

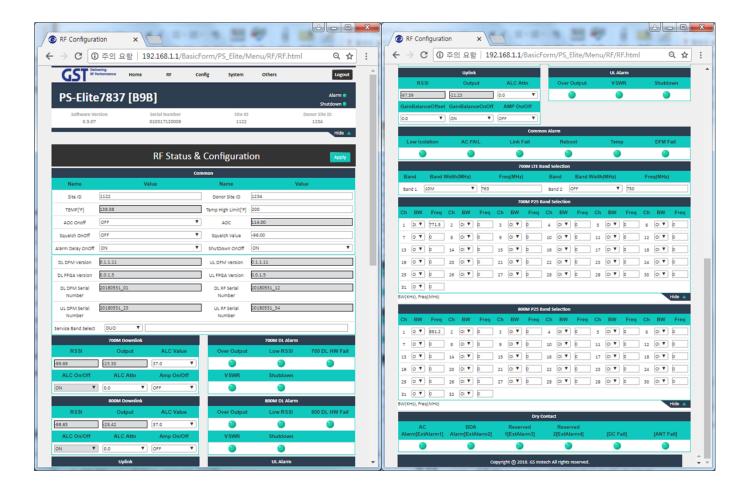
8.2.3 Log Out

1) Please logout of device once done viewing device information



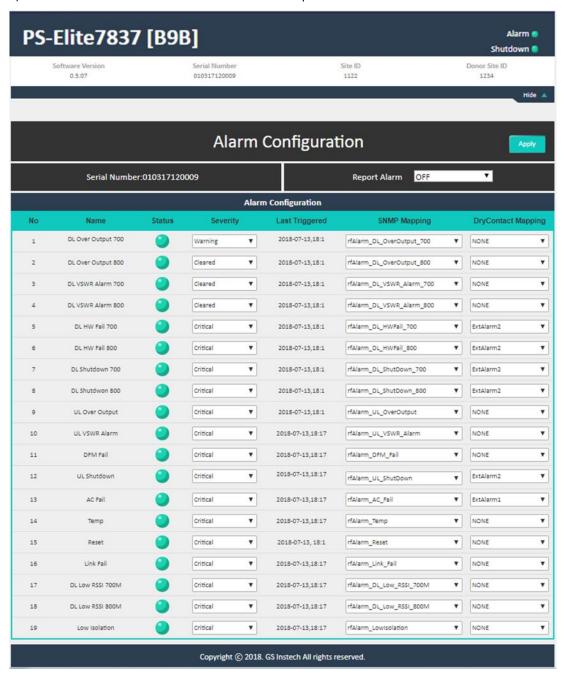
8.2.4 RF Status & Configration

- 1) Can check the current repeater status and setting the repeater system.
- 2) Items
 - ➤ Check of RSSI / Output Level
 - ➤ ALC Index, ALC On/Off, ALC Attn., AMP On/Off
 - ➤ AOC On/OFF, AOC DET, AOC CurrentAttn.
 - FirstNet (LTE) Band Select (Frequency and Bandwidth)
 - > 700MHz P25 Band Select (Frequency and Bandwidth)
 - 800MHz P25 Band Select (Frequency and Bandwidth)
 - ➤ Shutdown On/Off Select



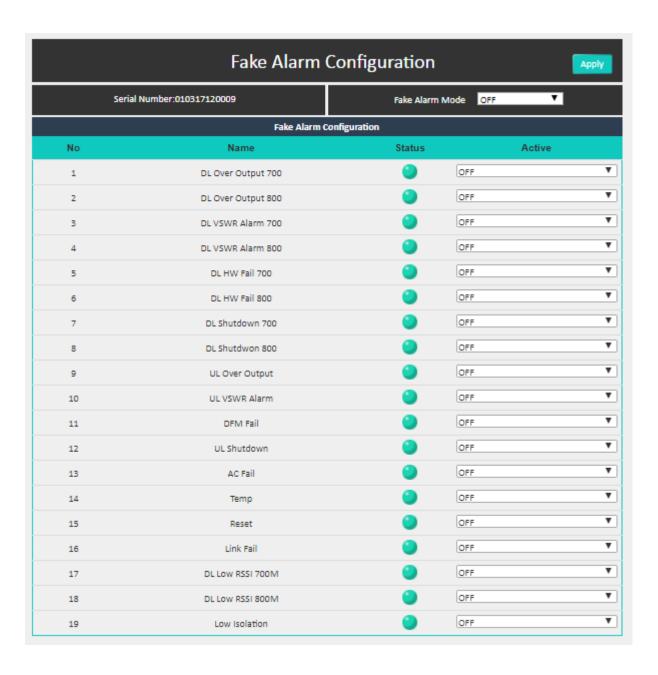
8.2.5 Alarm Configuration

1) Check the status and status of the alarm on the repeater.



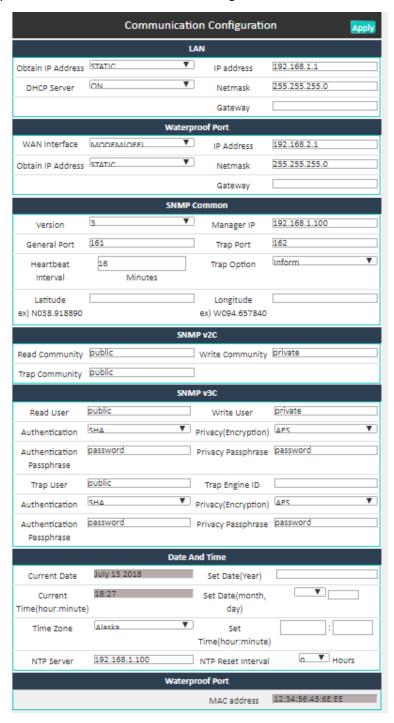
8.2.6 Fake Alarm Configuration

1) Set alarm for testing purposes.



8.2.7 Communication Configuration

Set up the IP information for the network management communication.



8.2.8 System Log

Can view the log in connect to the WEB UI.



8.2.9 Alarm Log

Record the log on the alarm that occurred on the repeater.

Alarm Log Comment					
Number	Last Triggered	Status	Alarm Name		
1	2007-01-01, 00:01:01		Reset		
2	2007-01-01, 00:01:01		DL Low RSSI 700M		
3	2007-01-01, 00:01:01		Reset		
4	2007-01-01, 00:01:01		Reset		
5	2007-01-01, 00:01:01		Reset		
6	2007-01-01, 00:01:01		Reset		
7	2007-01-01, 00:01:01		Reset		
8	2007-01-01, 00:01:01		Reset		
9	2007-01-01, 00:01:01		Reset		
10	2007-01-01, 00:01:01		Reset		
11	2007-01-01, 00:01:01		Reset		
12	2007-01-01, 00:01:01		Reset		
13	2007-01-01, 00:01:01		Reset		
14	2007-01-01, 00:01:01		Reset		
15	2007-01-01, 00:01:01		Reset		
16	2007-01-01, 00:01:01		Reset		
17	2007-01-01, 00:01:01		Reset		

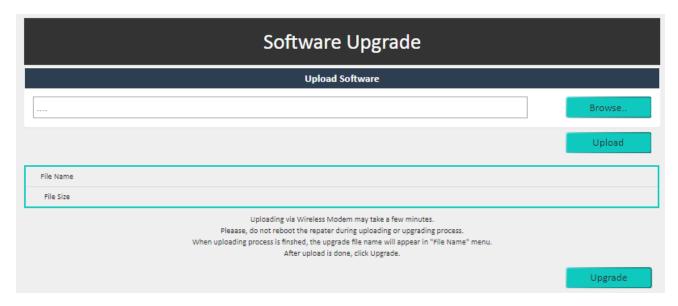
8.2.10 Trouble Shooting

Provide contact information to assist in trouble shooting in the event of a repeater failure



8.2.11 Remote Software Upgrade

To enhance the performance of the repeater, perform the Software Upgrade through the network.

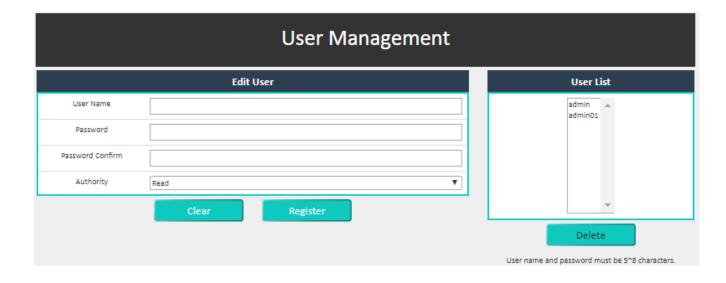


- 1) Select the file to upgrade and upload the file to the repeater's memory.
- 2) If the file is successfully uploaded, click the Update button to proceed with the upgrade.

8.2.12 User Management

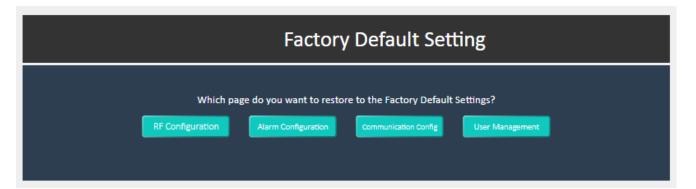
Manage user accounts to login to WEB UI.

- 1) Password Change
- 2) User account Permission authorization and change
- 3) New account setting



8.2.13 Factory Default Setting

The factory default setting is the default setting of the repeater that is controlled by the company. When performing a factory-defined setting, the L status set is initiated by the user.



8.2.14 System Reset

You can system reset by WEB-UI

System Reset				
Which module do you want to reset? DFM Module SNMP Module All				