



COMFLEX NG HRU-FDD

HIGH POWER REMOTE UNIT

USER MANUAL

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Document History

Page No.	Version	Revised By	Details of Change
n/a	0-0-1		First Release

WARNING

(1) Signal booster advisory/warning label message

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

Note: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

(2) Caution messages for use of unauthorized antennas, cables, and/or coupling devices not conforming with ERP/EIRP and/or indoor-only restrictions.

Use only authorized and approved antennas, cables and/or coupling devices! The use of unapproved antennas, cables or coupling devices could cause damage and may be of violation of FCC regulations. The use of unapproved antennas, cables and/or coupling devices is illegal under FCC regulations and may subject the user to fines.

(3) Describe installation procedure and any power, RF cable, and antenna selection and adjustment guidelines

Any installation, adjustment, maintenance and repair of the equipment must only be carried out by trained, authorized personnel. At all times, personnel must comply with any safety notices and instructions.

The design of the antenna installation needs to be implemented in such a way so as to ensure RF radiation safety levels and non-environmental pollution during operation.

Note: Antennas, feeders and couplers are not included in the packing list; solution provider should consider these accessories according to site conditions.

WARNING! Antenna gain should not exceed 5 dBi

(4) Licensee contact information (if available)

(5) Preclude indications that device supports home/personal use

To comply with FCC RF exposure compliance requirements, each individual antenna used for this transmitter must be installed to provide a separation distance greater than 330cm or more from all persons during normal operation and must not be co-located with any other antenna for meeting RF exposure requirements.

WARNING! For 1710-1755 MHz, installation must comply with 27.50(d)(4) max 1 W EIRP and fixed station ABSOLUTE max 10 m antenna height above earth.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Comba Telecom Technology (Guangzhou) Ltd.

No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, China

<https://signalboosters.fcc.gov/signal-boosters/>

For product model number HRU-7851719-AC, HRU-7851719-DC with FCC ID: PX8CFNG-HRUF is limited to operations under waiver DA 13-2409(DISH Waiver).

List of Abbreviations

Abbreviation	Meaning
AC	Alternating Current
DC	Direct Current
ANT	Antenna
CLI	Command-Line Interface
GUI	Graphical User Interface
LED	Light-Emitting Diode
LMT	Local Maintenance Terminal
LTE	Long Term Evolution
NR	New Radio
PSU	Power Supply Unit
RF	Radio Frequency
Rx	Receive
Tx	Transmit
UL	Uplink
DL	Downlink

1. OVERVIEW

The ComFlex NG DAS system is an analog digital combination system that supports both wireless and direct access methods, and supports 4G and 5G standards. The wireless access method amplifies the RF signal by selecting the corresponding frequency band of the operator through digital signal processing, while the direct access method attenuates the RF signal through POI modules to ensure compatibility between the wireless and wired access sources. MU also converts radio frequency signals into optical signals, which are pulled far to the remote RU through optical fibers. RU amplifies the signal again and covers the network through Passive DAS.

1.1. APPEARANCE

The following figures shows the appearance of the High Power Remote.



Figure 1 High Power Remote Unit - HRU

1.2. NETWORK ARCHITECTURE

Following is the typical network architecture of ComFlex NG series Distributed Antenna System, High Power Remote is connected with the MU by optical fiber cable. The RF output of the RU is connected to antenna by RF cables. The MU and RU are powered by PSU in the equipment room or outdoor PSU.

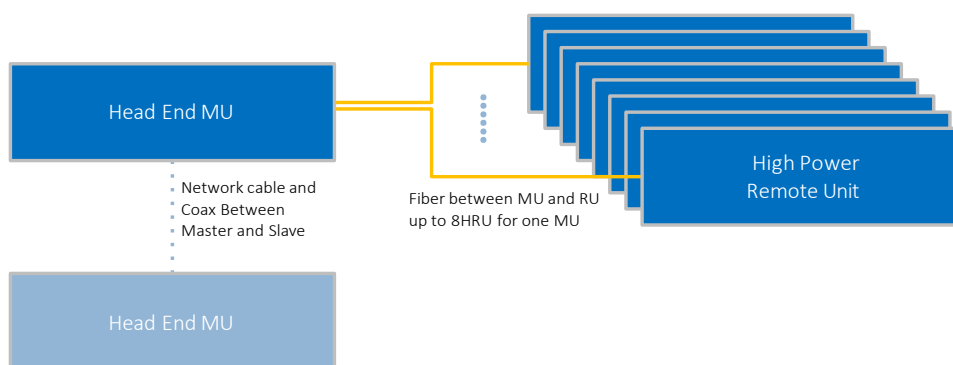


Figure 2 High Power Remote Network Diagram

1.3. PHYSICAL PORTS AND INDICATION

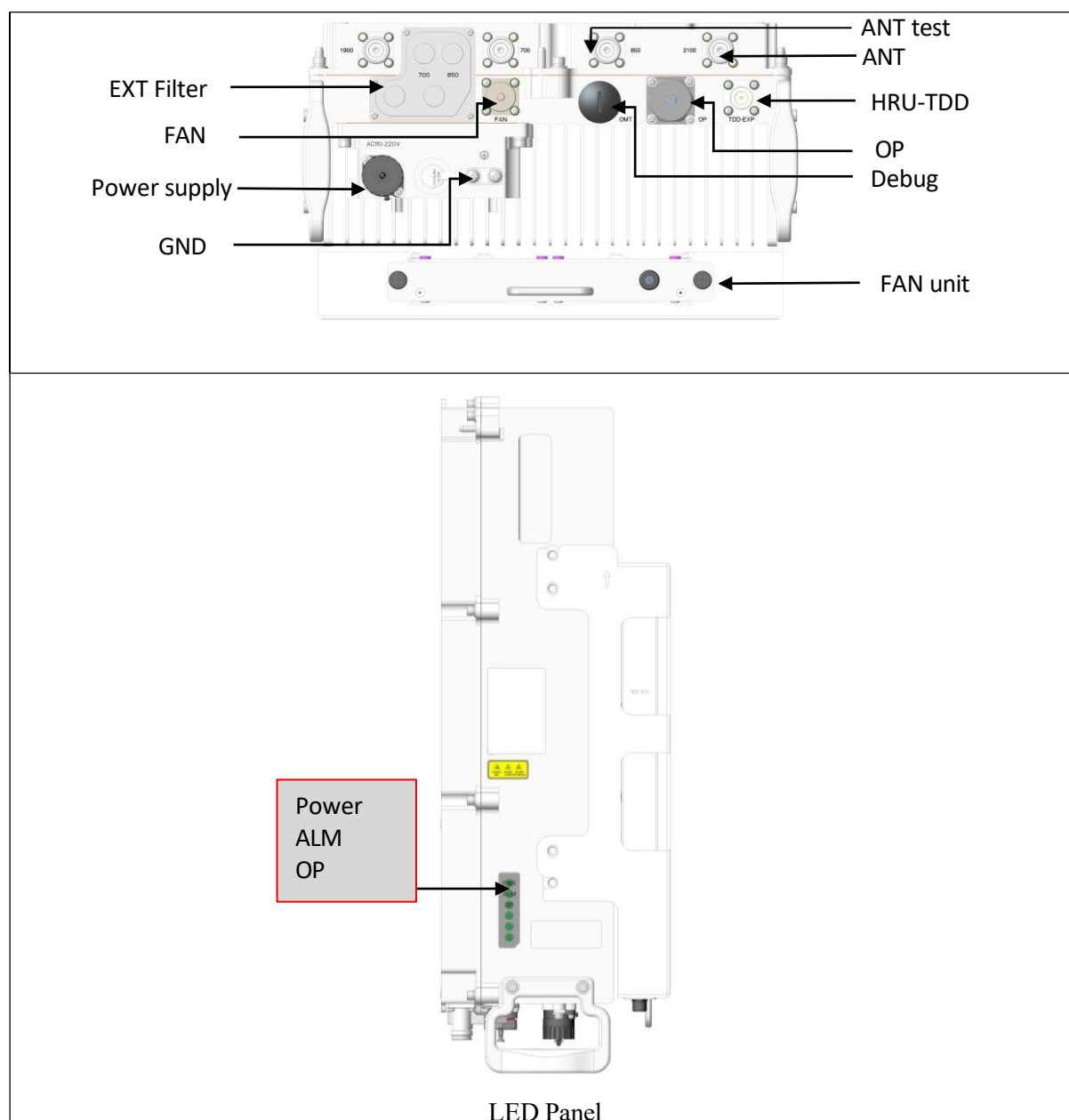


Figure 3 Port and Indication

Table 1 Ports at bottom side

Port	Connector	Description
EXT filter	SMA	Connected ext 700/850MHz filter
OP	SC-APC	Connected optical fiber form MU
GND	M6 bolt	Connected GND wire
ANT	DIN4.3-10	Connected antenna
FAN	8pin-circle	Connected FAN unit
Debug	Mini-USB	Ethernet interface for LMT
Power supply	4pin-circle	Connected power supply

Table 2 LED indicator

LED Label	Status	Description
PWR	Solid Green	Unit is powered ON and Operational
	Flashing Green	Unit is powered on and NOT Operational
	Off	Unit is not powered
ALM	Green	RU is NOT in alarm
	Red	RU is in alarm
OP	Green	Optical Link is established and operational
	Red	Optical Link is NOT established and operational

2. TECHNICAL SPECIFICATION

2.1. FREQUENCY BANDS

Table 3 Medium Power Remote frequency bands

Band	TX Frequency (MHz)	RX Frequency (MHz)	IBW (MHz)
B12	728-746	698-716	18
B13	746-757	776-787	11
B14	758-768	788-798	10
B5	862-894	817-849	32
B66	2110-2200	1695-1780	90/85
B25	1930-2000	1850-1915	70/65

2.2. RU GAIN

Table 4 Typical output power allocation

Band	TX Gain (dB)	RX Gain (dB)
B12	53	40
B13	53	40
B14	56	40
B5	56	40
B66	56	40
B25	56	40

2.3. OUTPUT POWER

Table 5 Typical output power allocation

Band	TX Frequency (MHz)	Output power(dBm)
B12	728-746	43
B13	746-757	
B14	758-768	
B5	862-894	43
B66	2110-2200	46
B25	1930-2020	46

2.4. ELECTRICAL SPECIFICATION

2.4.1. INPUT POWER VOLTAGE

Table 6 Input power voltage

Unit	Operation Voltage Range
HRU - AC	100V to 240V AC
HRU - DC	-48V DC

2.4.2. POWER CONSUMPTION

Table 7 Power consumption

Mode	Output Power (dBm)	Typical Power Consumption (W)	Maximum Power Consumption (W)
HRU	43@700, 800 46@1900, 2100	525	560

2.5. MECHANICAL AND ENVIRONMENTAL

2.5.1. EQUIPMENT SIZE AND WEIGHT

Table 8 Equipment size and weight

Dimension (H x W x H)	Weight
550mm x 320mm x 169mm	25 kg (without mounting bracket)

2.5.2. ENVIRONMENTAL

Table 9 Equipment environment specification

Item	Specifications
Operation Temperature(°C)	-40 - +55
Operation Humidity	5 – 95%, non-condensing
Storage Temperature(°C)	-40 - +55
Environmental Protection	IP 65
Cooling	Convection (fans optional)

2.6. TRANSMISSION INTERFACE SPECIFICATION

Table 10 Fronthaul interface specification

Item	Specifications
Port Type	SC-APC
No. of Ports	1
Wave length (nm)	TX 1310+ RX 1550+WDM
Topology	Star
Maximum optical loss	8dB

3. INSTALLATION INSTRUCTIONS

3.1. PACKING LIST

Table 11 Package list

NO	Description	Model	Quantity	Remarks
1	HRU	HRU-AC / HRU-DC	1 Pcs	

ACCESSORIES INCLUDED

NO	Description	Item code	Quantity	Remarks
2	GND Cable	6AWG,2m	1 Pcs	
3	Expansion bolt	M10×110	4 Pcs	
4	Mounting bracket 1	ADAS-S5100-5812	1 Pcs	
5	Bracket Screw	M6×16	4Pcs	
6	FAN	MPRU-S5100	1 Pcs	
7	Mini-USB to Ethernet Cable	Mini-USB to ETH	1 Pcs	

3.2. TOOLS REQUIREMENT

The requirement for the installation tools as follows:

Table 12 Tool Requirement

Tool Type	Usage
 Percussion drill	Drill the hole of Φ14 mm
 Open spanner	10 mm and 16 mm
 Hammer	Use to install the expansion bolt when use wall-mounted

3.3.1. HRU INSTALLATION STEP

Step1:Demount the mounting rack from the HRU, use percussion drill to drill 4 pole of $\Phi 14$ with 65-75 mm depth, as shown in Figure 4.



Diagram illustrating the installation of the mounting bracket onto a wall. The bracket is secured using 4xM10 expansion bolts, 4xM10 flat washers, 4xM10 spring washers, and 4xM10 nuts. The dimensions 270mm and 170mm are indicated for the bracket's width and height respectively.

Figure 5 Mounting Bracket Installation Diagram

Step3: Lift the device, align the four mounting screws with the slot of the mounting tray, and tighten the four M8 screws on the left and right sides to secure the device, as shown in Figure 6.

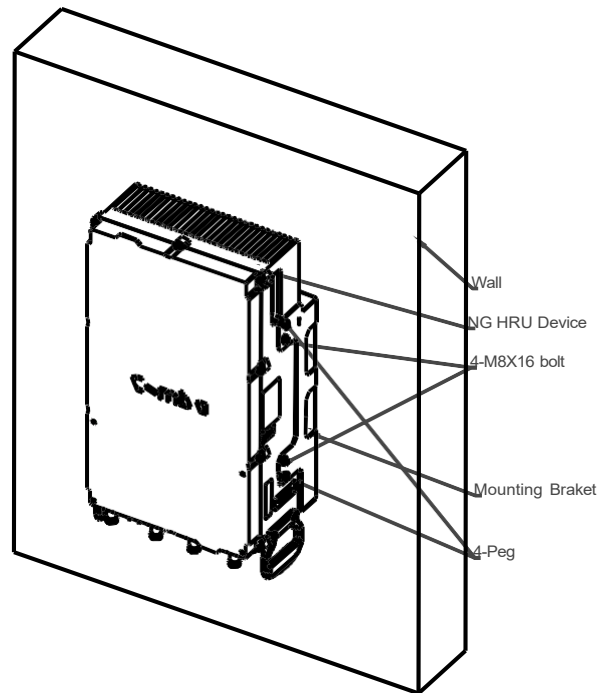


Figure 6 Wall Mounting (without Combiner)

If need the Splitter, please use RF Cable to connect the TX port of HRU to the COM port of splitter, as shown in Figure 7.

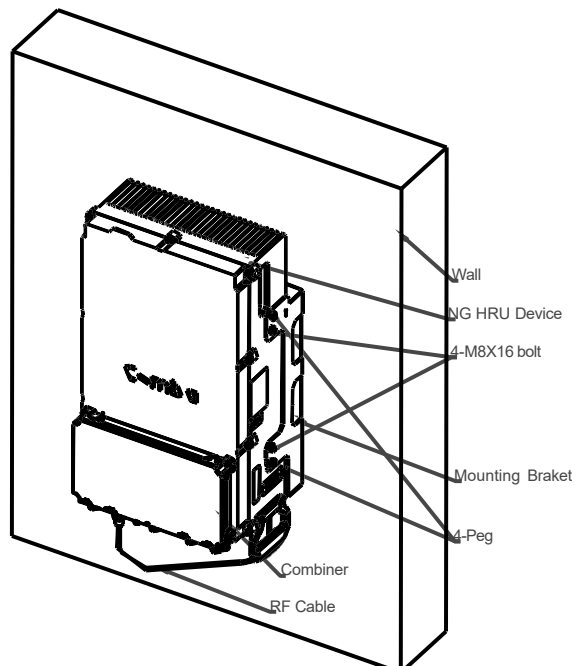


Figure 7 Wall Mounting (with Combiner)

If need the FAN, please insert the fan into the guide rail of the bracket and lock it with two M5 screws, and then connect the plug of the fan to the fan socket of the HRU, as shown in Figure 8.

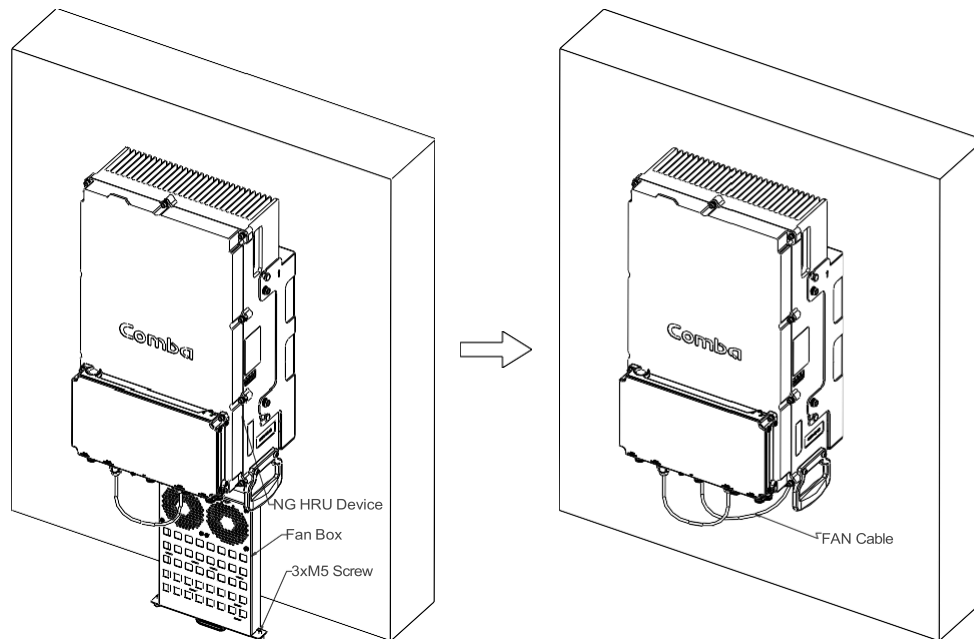


Figure 8 Fan Installation

3.3.2. GROUNDING

The Grounding cable is provided with the screw which will be installed at the chassis as shown in Figure 9.

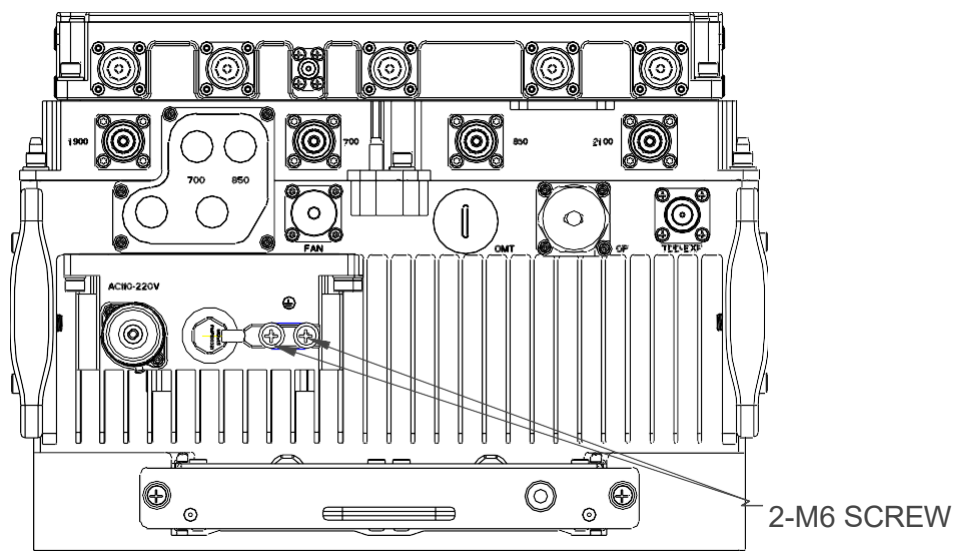


Figure 9 Grounding Cable Diagram

3.3.3. EXTERNAL FILTER CONNECTION

Filter connector is SMA connector, RF cable is recommended for RG402 cable. The 700MHz filter includes B12/B13/B14.

Step1: Unscrew the two M4x14 screws, remove the RF Cable Cover, and use a wrench to unscrew the two RF cables, as shown in Figure 10.

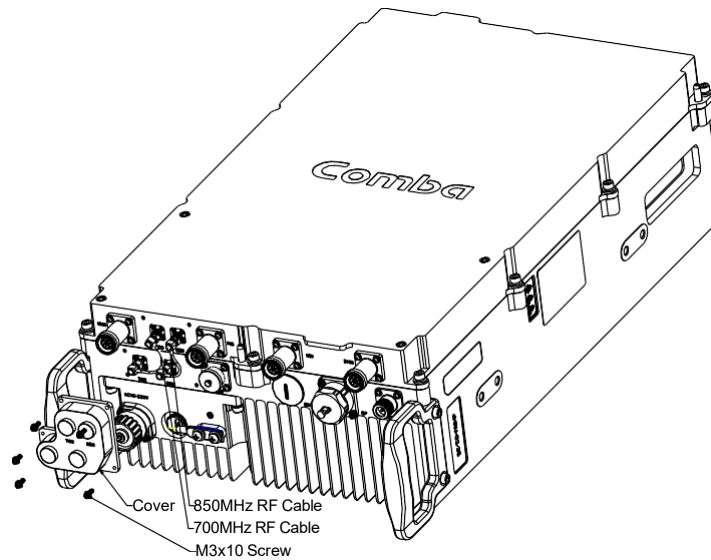


Figure 10 Remove RF Cable Cover

Step2: Please use 4 RF cables to connect 700MHz and 850MHz filter input/output ports, and then use 2 M4x14 screws to lock the RF Cable Cover, as shown in Figure 11, and RF Cable connection as shown in Figure 12 and Figure 13.

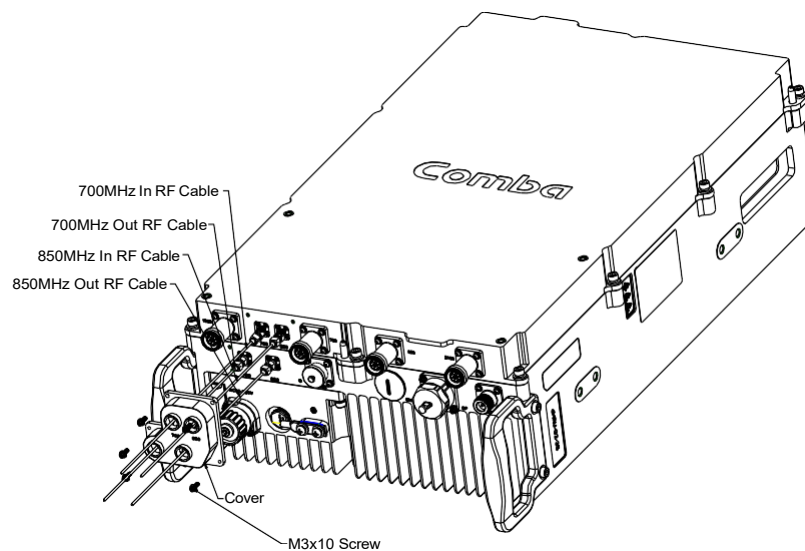


Figure11 Connect the RF cable and Filer

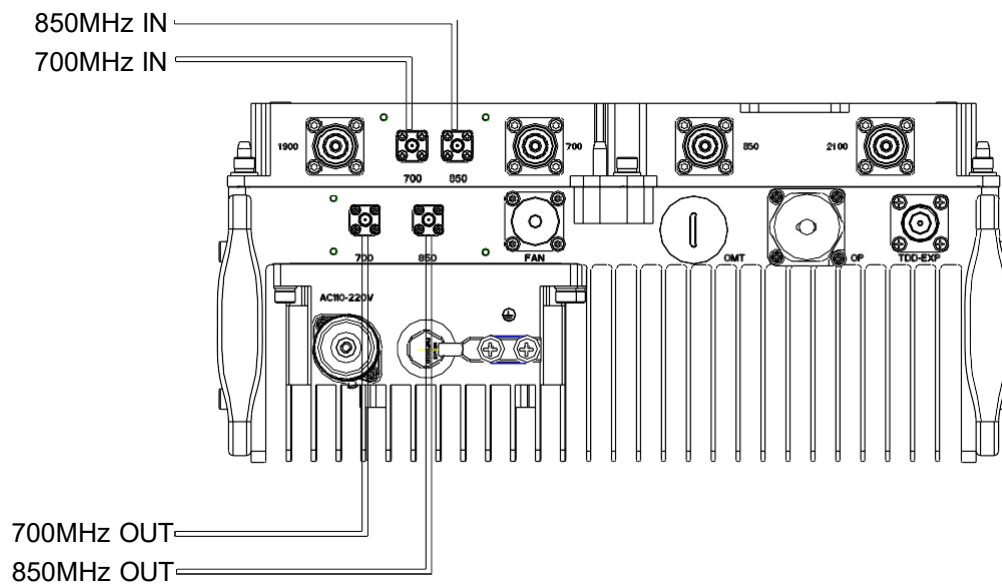


Figure12 700/850 RF Ports

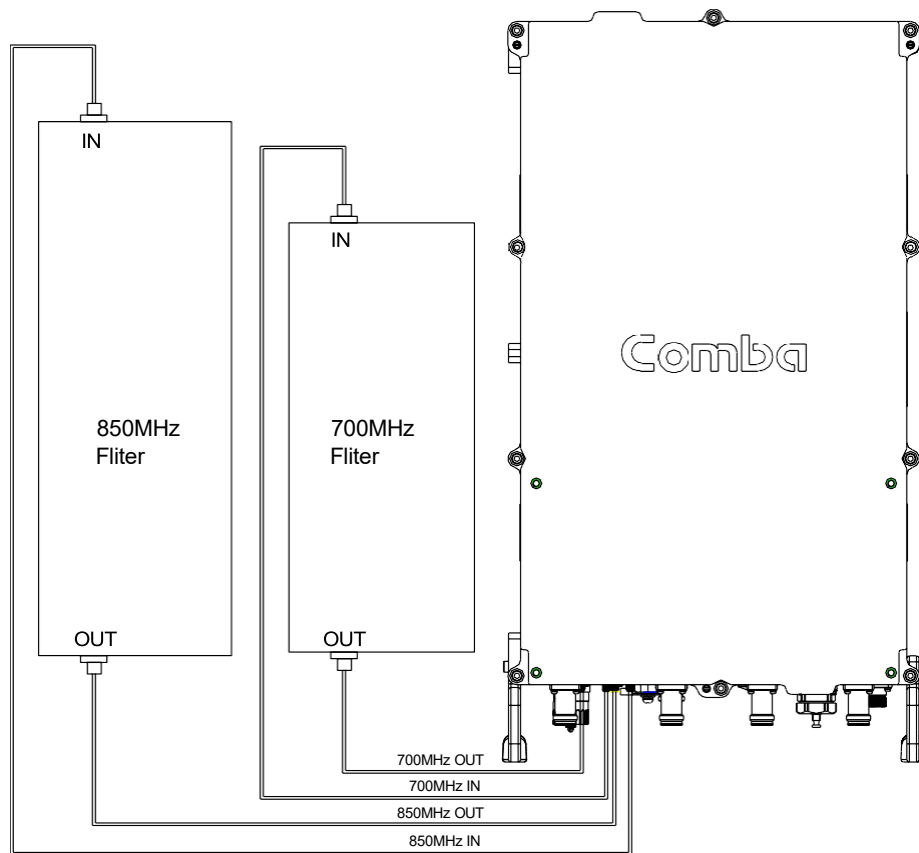


Figure13 Filter Connection

3.3.4. FIBER CONNECTION

Step1: Unscrew the protection cover of the OP port.

Step2: Take out the connector and remove the small rubber plug.



Figure14 remove the small rubber plug

Step3: Pass the optical fibers through the connector in the following order.



Figure15 Pass the fiber

Step4: Insert the optical fiber into the SC-APC connector.

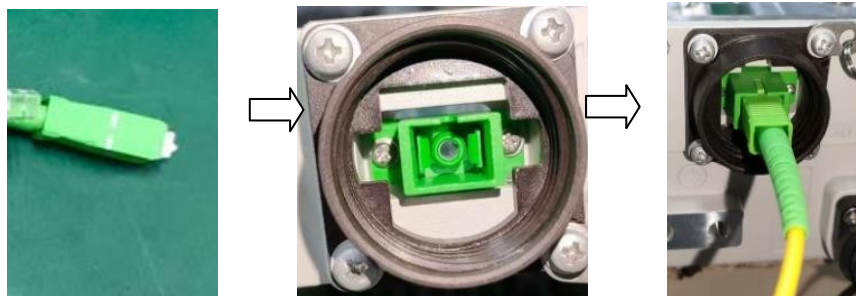


Figure16 Insert the fiber

Step5: Insert the transparent sleeve into the optical fiber waterproof seat.

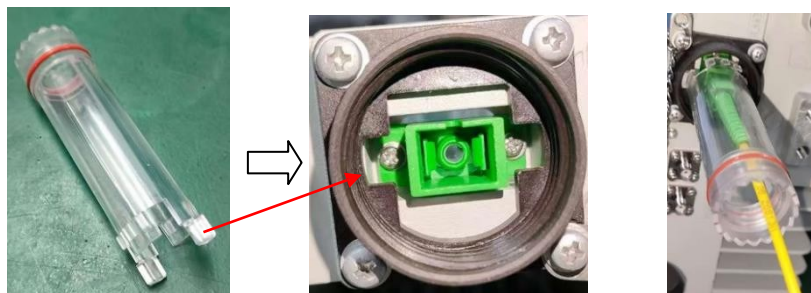


Figure17 Insert the transparent sleeve

Step6: Insert rubber plug.



Figure18 Insert rubber plug

Note: When inserting the rubber plug, avoid bending the optical fiber in the transparent sleeve

Step7: Tighten the waterproof cover.

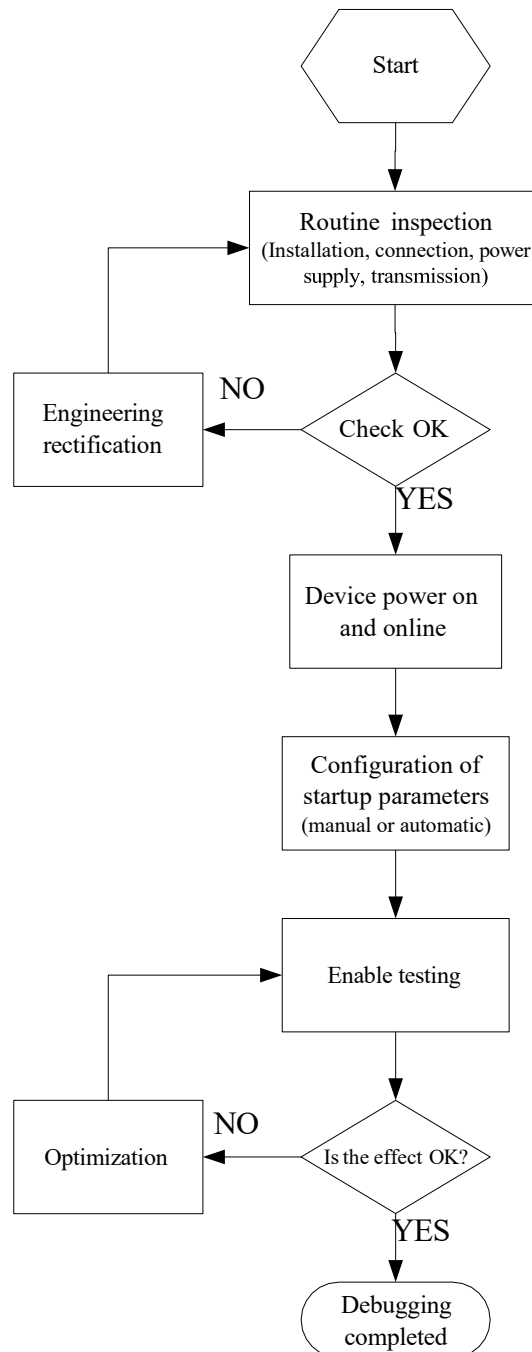


Figure19 Tighten the waterproof cover

4. SYSTEM TUNE UP PROCEDURE

HRU is a kind of RU device connected by optical fiber. The system is mainly controlled from the software of MU. the following is the system of the station opening process.

The activation process is shown in the following figure:



4.1. EQUIPMENT POWER ON AND ONLINE

4.2. POWER ON THE DEVICE

Before powering on the equipment for testing, it is necessary to carefully. Check all connections during installation to ensure they are correct. After the inspection is completed, the equipment can only be powered on and put into use.

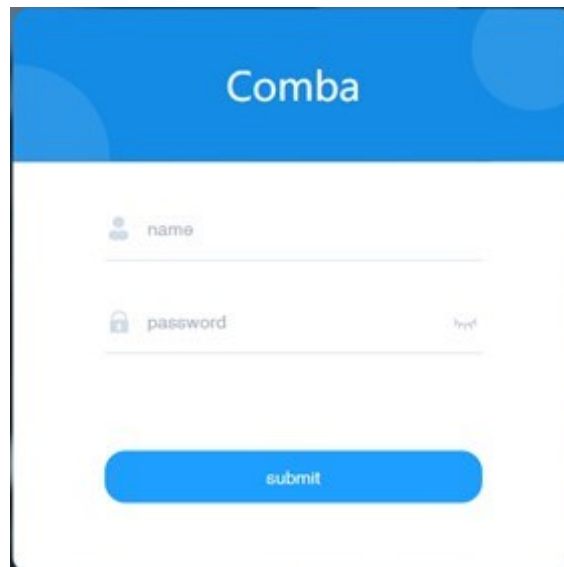
4.2.1. DEVICE ONLINE

Local WEB enables setting and monitoring of device parameters, and can establish contact between devices and computers through both local and remote online methods.

Currently, only local web connectivity is supported: the local computer is directly connected to the OMT port of the device through an Ethernet port and a network cable.

The steps are as follows:

- Set the IP address of the local computer to 192.168.1.100 (cannot be 192.168.1.231), the computer network card needs to be set to 100M duplex mode.
- Open the browser software and enter 192.168.1.231 in the address bar; As shown in the following figure:

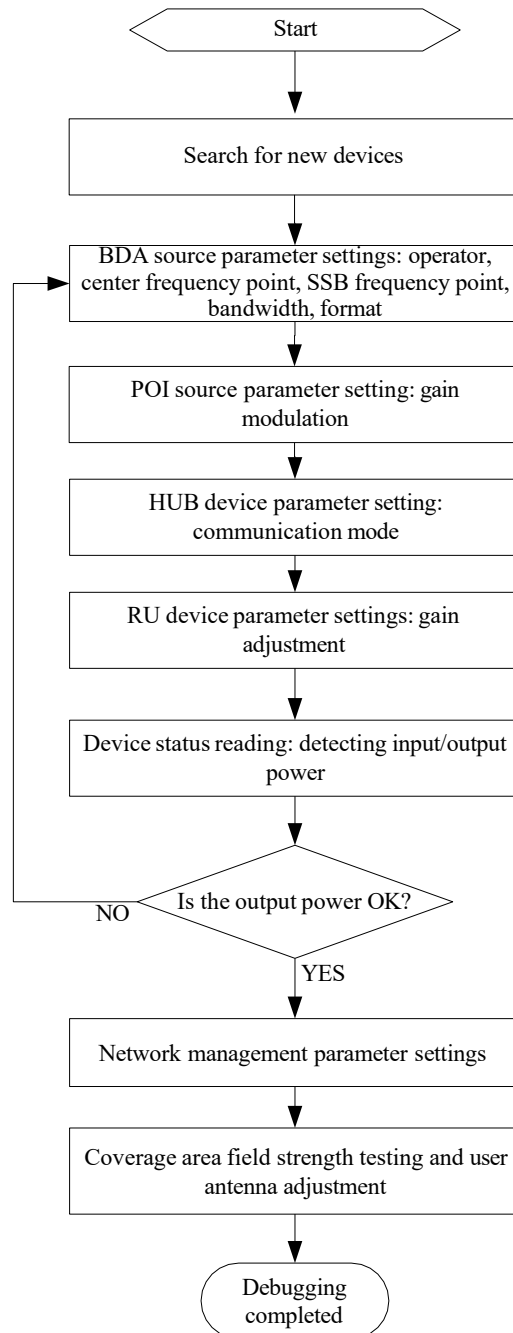


- Enter the username and password, click submit to enter the device management interface.

4.3. MANUAL STATION OPENING PARAMETER CONFIGURATION

This system provides two ways to start a station, namely automatic and manual. This chapter mainly explains the configuration process of manual station opening.

After completing the installation and connection of the device, connect the portable computer, turn on the machine power switch, and wait for the initialization of the monitoring system (i.e. when the RUN/ALM on the monitoring motherboard starts flashing) to start debugging. Users can refer to the following debugging steps for online debugging.



4.3.1. SEARCH FOR NEW DEVICES

According to the website opening requirements, click the button in the following figure to search for new devices.

The button information is as follows:

MU Cards Discover: Discovers new MU cards, such as POI;

HUB Discover: Discovering a new MRU/HUB machine;

ARU Discover: Discovered a new ARU machine.

MRU Discover: Discovered a new MRU machine.

HRU Discover: Discovered a new HRU machine.

A: MU discover function is used to detect all slot hardware in MU.

B: HUB discover function is used to find the HUB/MRU/HRU that connect to FOU and automatically provide the

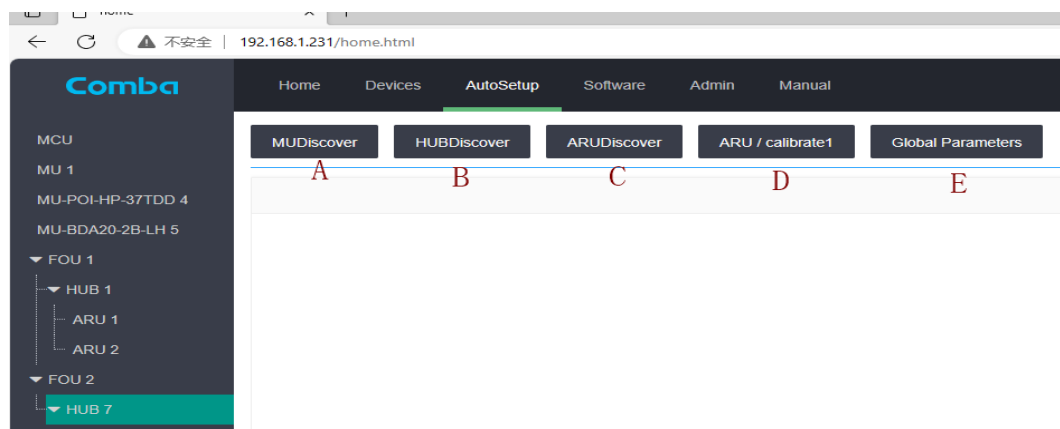
site number for each HUB/MRU/HRU.

C: ARU discover function is used to find the ARU which connect to the HUB, and HUB will automatically provide the site number to each ARU.

Note: ABC function is necessary for system that be seen by the GUI

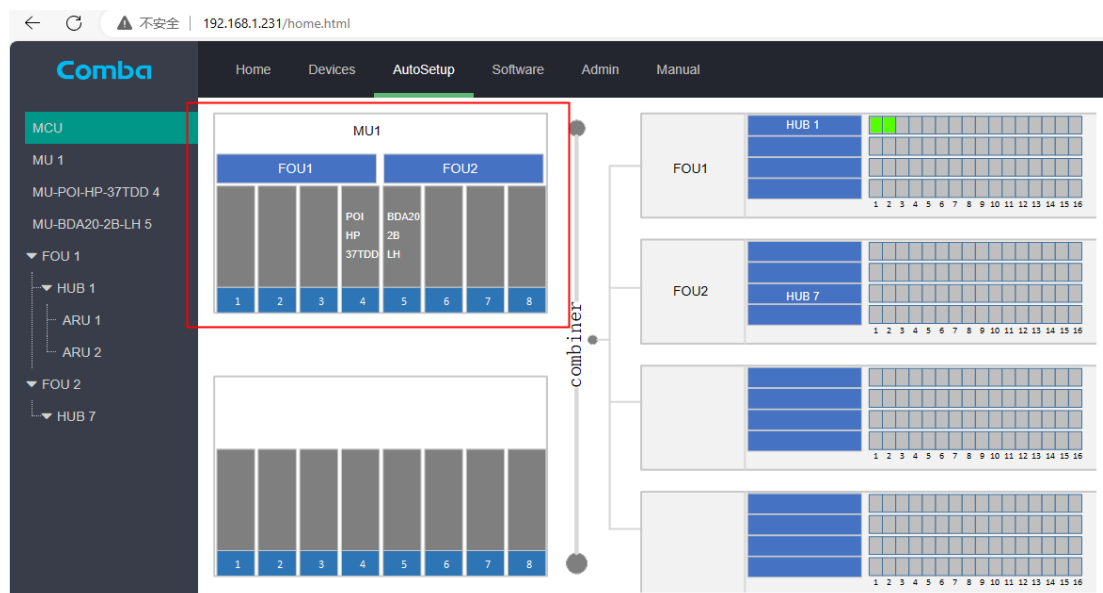
D: ARU calibrate function is used to automatically calibrate the gain from HUB to ARU to adapt to different insertion loss cables, maintaining a balanced system gain setting.

E: Global parameters are used to control RF and HUB DC switches at the touch of a button



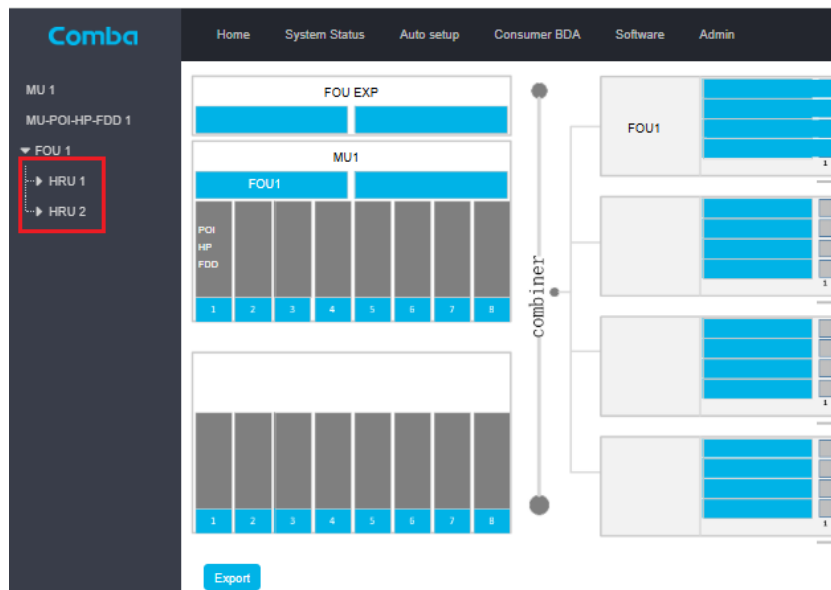
MU discovers

It takes about 30 seconds to complete the detection, and will automatically exit the progress bar. Click the home button after completion, you can see that the MU device on the left sidebar appears, and the module information of each slot will appear in the home view.



HUB/MRU/HRU discovers

It takes about 30 seconds to complete the detection, and will automatically exit the progress bar. Click the home button after completion, you can see that the HUB/MRU/HRU on the left sidebar appears, and the HUB/MRU/HRU information appear in the home view.



ARU discover

It takes about 120 seconds to complete the detection, and will automatically exit the progress bar. Click the home button after completion, you can see that the ARU on the left sidebar appears, and the ARU position information of each HUB will appear in the home view



4.3.2. FOU PARAMETER SETTINGS

Can query and set optical signal related parameters and alarms.



Dev Model: MU-FOU

Temperature: 39

Serial Num 123456

Set

Dev Info 12345

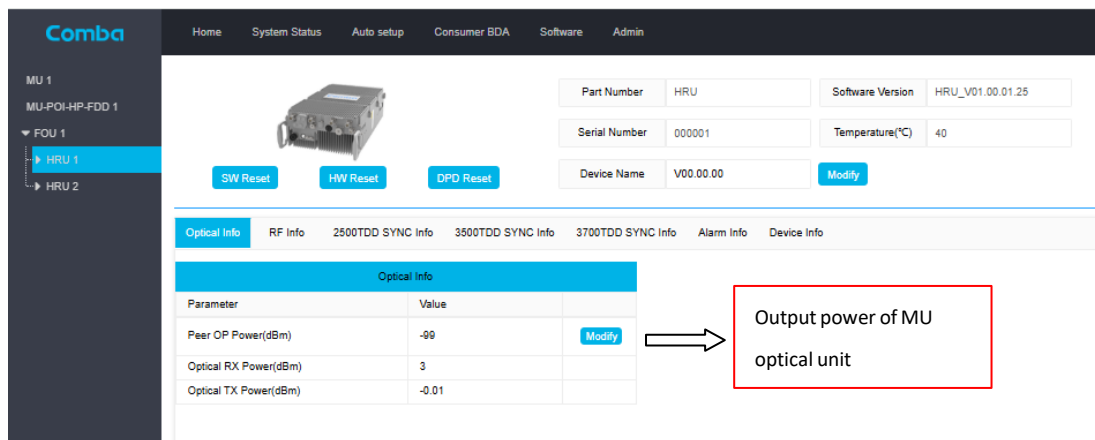
Set

Software Version FOUOAMV0100.04_TS

☐	name	type	current value	set value	min value	max value	unit	remarks
☐	Optical RX Power 1	R	7		-3	8	*	
☐	Optical RX Power 2	R	-5		-3	8	*	
☐	Optical RX Power 3	R	-5		-3	8	*	
☐	Optical RX Power 4	R	-5		-3	8	*	
☐	Optical TX Switch	R/W	1		0	1	*	
☐	Optical RX Switch 1	R/W	1		0	1	/	
☐	Optical RX Switch 2	R/W	1		0	1	/	
☐	Optical RX Switch 3	R/W	1		0	1	/	
☐	Optical RX Switch 4	R/W	1		0	1	/	
☐	RF Switch 1	R/W	1		0	1	/	
☐	RF Switch 2	R/W	1		0	1	/	
☐	RF Switch 3	R/W	1		0	1	/	
☐	RF Switch 4	R/W	1		0	1	/	

4.3.3. HRU DEVICE PARAMETER SETTINGS

4.3.4.1. OPTICAL SIGNAL RELATED PARAMETERS



Comba

Home System Status Auto setup Consumer BDA Software Admin

MU 1
MU-POI-HP-FDD 1
FOU 1
HRU 1
HRU 2

Part Number HRU Software Version HRU_V01.00.01.25
Serial Number 000001 Temperature(°C) 40
Device Name V00.00.00 Modify

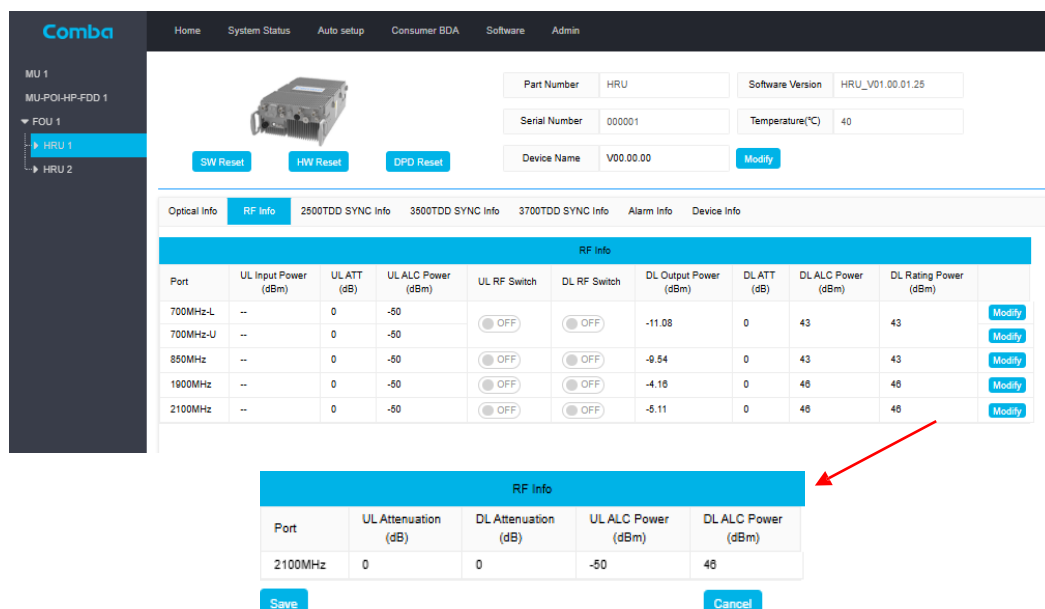
SW Reset HW Reset DPD Reset

Optical Info RF Info 2500TDD SYNC Info 3500TDD SYNC Info 3700TDD SYNC Info Alarm Info Device Info

Optical Info	
Parameter	Value
Peer OP Power(dBm)	-99
Optical RX Power(dBm)	3
Optical TX Power(dBm)	-0.01

Output power of MU optical unit

4.3.4.2. RF RELATED PARAMETERS



Comba

Home System Status Auto setup Consumer BDA Software Admin

MU 1
MU-POI-HP-FDD 1
FOU 1
HRU 1
HRU 2

Part Number HRU Software Version HRU_V01.00.01.25
Serial Number 000001 Temperature(°C) 40
Device Name V00.00.00 Modify

SW Reset HW Reset DPD Reset

Optical Info RF Info 2500TDD SYNC Info 3500TDD SYNC Info 3700TDD SYNC Info Alarm Info Device Info

Port	UL Input Power (dBm)	UL ATT (dB)	UL ALC Power (dBm)	UL RF Switch	DL RF Switch	DL Output Power (dBm)	DL ATT (dB)	DL ALC Power (dBm)	DL Rating Power (dBm)
700MHz-L	--	0	-50	OFF	OFF	-11.08	0	43	43
700MHz-U	--	0	-50	OFF	OFF	-9.54	0	43	43
850MHz	--	0	-50	OFF	OFF	-4.16	0	46	46
1900MHz	--	0	-50	OFF	OFF	-5.11	0	46	46
2100MHz	--	0	-50	OFF	OFF				

RF Info

Port	UL Attenuation (dB)	DL Attenuation (dB)	UL ALC Power (dBm)	DL ALC Power (dBm)
2100MHz	0	0	-50	46

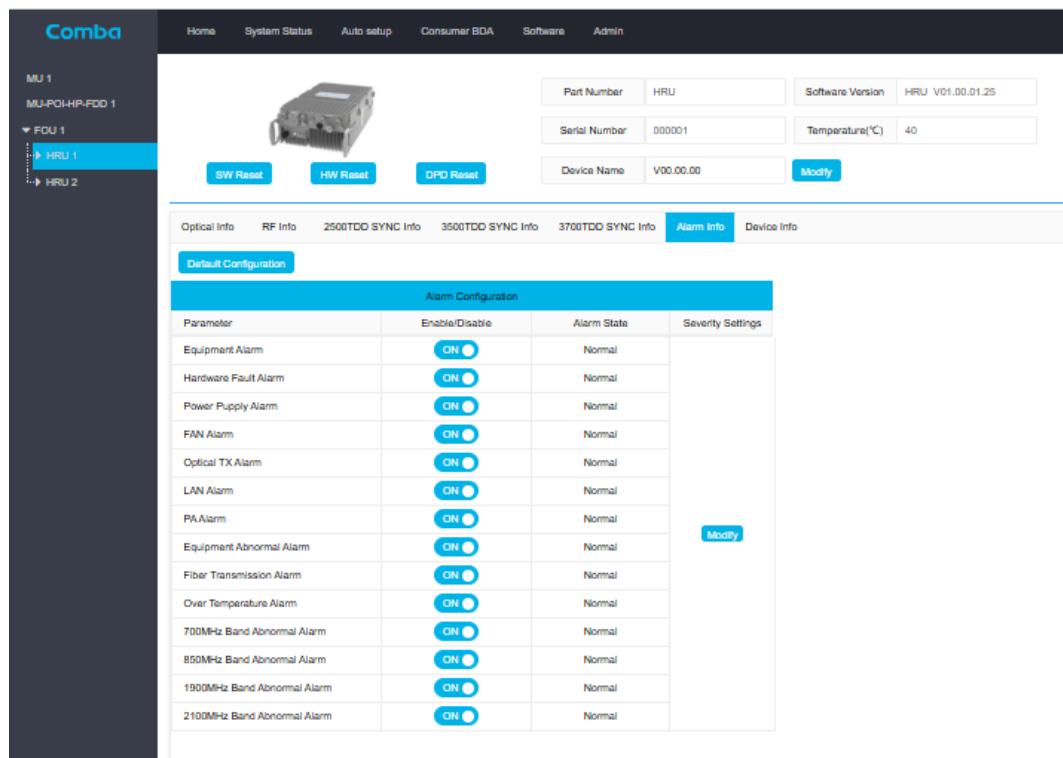
Save Cancel

HRU:

RF parameters include UL input power,UL ATT,UL ALC power,UL RF Switch, DL RF Switch,DL output power,DL ATT,DL ALC power, DL rating power;

- ① UL input power range: -50dBm to -90dBm;
- ② UL ATT/ DL ATT range: 0 to -15dB;
- ③ UL ALC power range: -50dBm to -60dBm;
- ④ DL output power range: ALC power to ALC-28dB;
- ⑤ DL ALC power range: rating power to rating-10dB.

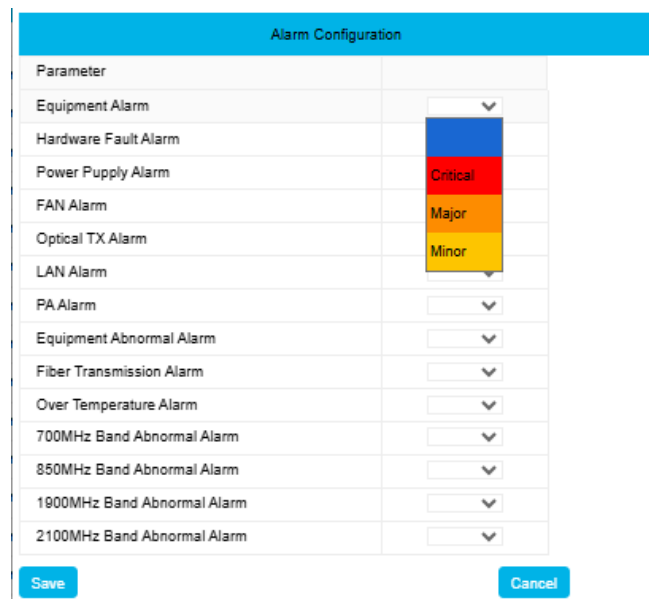
4.3.4.3. ALARM RELATED PARAMETERS



The screenshot shows the Comba web interface. The sidebar on the left lists navigation options: MU 1, MU-POI-HP-FDD 1, FDU 1, HRU 1, and HRU 2. The top navigation bar includes links for Home, System Status, Auto setup, Consumer BDA, Software, and Admin. The main content area displays a device image and its details: Part Number (HRU), Software Version (HRU V01.00.01.25), Serial Number (000001), Temperature(°C) (40), and Device Name (V00.00.00). Below this, there are tabs for Optical Info, RF Info, 2500TDD SYNC Info, 3500TDD SYNC Info, 3700TDD SYNC Info, Alarm Info (selected), and Device Info. The Alarm Info tab shows a 'Default Configuration' section with a table of alarm parameters.

Parameter	Enable/Disable	Alarm State	Severity Settings
Equipment Alarm	ON	Normal	Modify
Hardware Fault Alarm	ON	Normal	
Power Pupply Alarm	ON	Normal	
FAN Alarm	ON	Normal	
Optical TX Alarm	ON	Normal	
LAN Alarm	ON	Normal	
PA Alarm	ON	Normal	
Equipment Abnormal Alarm	ON	Normal	
Fiber Transmission Alarm	ON	Normal	
Over Temperature Alarm	ON	Normal	
700MHz Band Abnormal Alarm	ON	Normal	
850MHz Band Abnormal Alarm	ON	Normal	
1900MHz Band Abnormal Alarm	ON	Normal	
2100MHz Band Abnormal Alarm	ON	Normal	

Each alarm can be enabled or disabled independently. The alarm level can be critical, major, or minor.



The screenshot shows the 'Alarm Configuration' dialog box. It contains a table with two columns: 'Parameter' and 'Severity Settings'. The 'Severity Settings' column has a dropdown menu that is currently open, showing three options: 'Critical' (red), 'Major' (orange), and 'Minor' (yellow). The 'Save' and 'Cancel' buttons are at the bottom of the dialog.

Parameter	Severity Settings
Equipment Alarm	▼
Hardware Fault Alarm	▼
Power Pupply Alarm	Critical
FAN Alarm	Major
Optical TX Alarm	Minor
LAN Alarm	▼
PA Alarm	▼
Equipment Abnormal Alarm	▼
Fiber Transmission Alarm	▼
Over Temperature Alarm	▼
700MHz Band Abnormal Alarm	▼
850MHz Band Abnormal Alarm	▼
1900MHz Band Abnormal Alarm	▼
2100MHz Band Abnormal Alarm	▼

4.3.4.4. DEVICE INFORMATION

Device information includes the hardware ID and authorization information.

Comba

Home System Status Auto setup Consumer BDA Software Admin

MU 1
MU-POI-HP-FDD 1
FOU 1
HRU 1
HRU 2

Part Number HRU Software Version HRU_V01.00.01.25
Serial Number 000001 Temperature(°C) 40
Device Name V00.00.00 Modify

SW Reset HW Reset DPD Reset

Optical Info RF Info 2500TDD SYNC Info 3500TDD SYNC Info 3700TDD SYNC Info Alarm Info Device Info

Parameter	Value
Device ID	****
Authorization ID	Modify
700MHz Authorization Status	Authorized
800MHz Authorization Status	Authorized
190MHz Authorization Status	Authorized
2100MHz Authorization Status	Authorized

Authorization ID

Yes No

4.3.4.5. DEVICE REST

Software rest: Only software reset, the signal is normal and the service is not affected. The duration is 1-2 minutes.

Hardware rest: Device power rest, the duration is 3-5 minutes;

DPD rest: PA DPD module reset and the signal is normal, the duration is 1-2 minutes.

Comba

Home System Status Auto setup Consumer BDA Software Admin

MU 1
MU-POI-HP-FDD 1
FOU 1
HRU 1
HRU 2

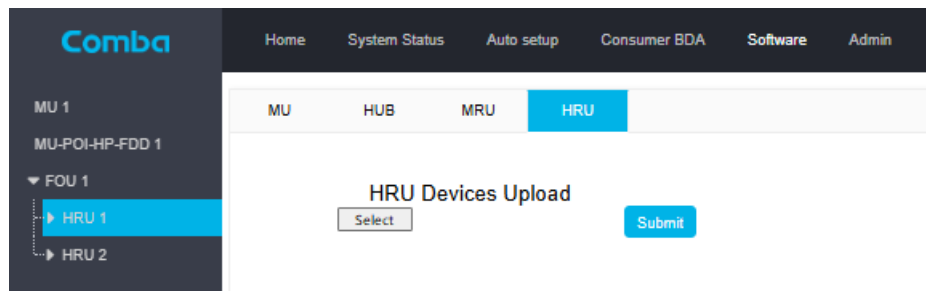
Part Number HRU Software Version HRU_V01.00.01.25
Serial Number 000001 Temperature(°C) 40
Device Name V00.00.00 Modify

SW Reset HW Reset DPD Reset

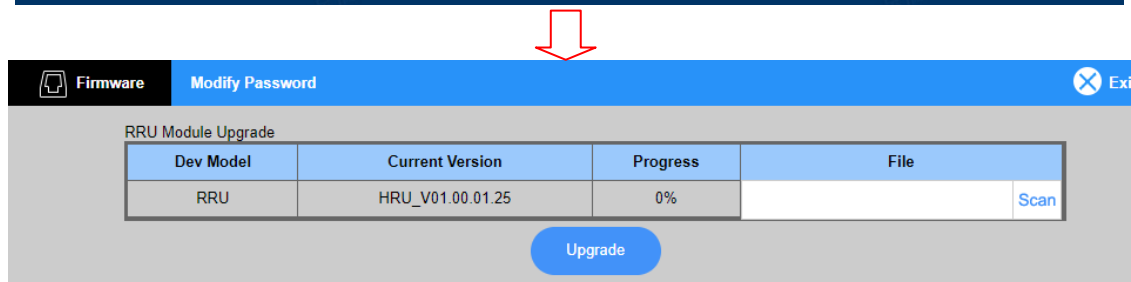
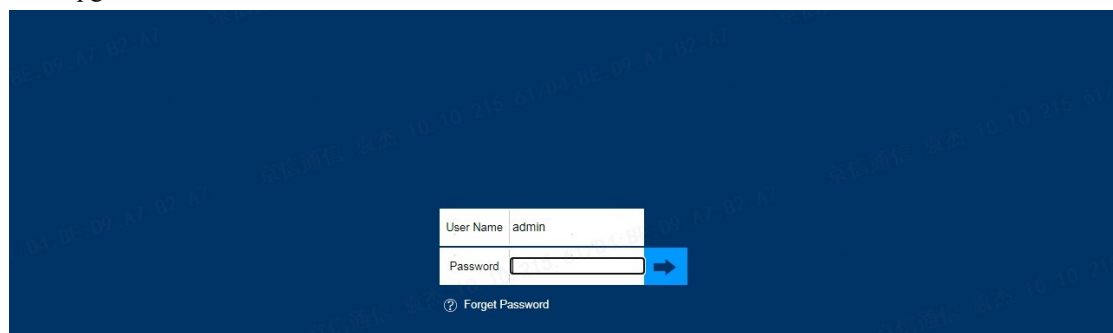
4.3.4.6. SOFTWARE UPGRADE

There are two ways to upgrade software, one is local upgrade, the other is through the MU upgrade.

- Upgrade by MU:



- Local upgrade



--End--