2.6.7 Fan module (optional)

If the upper and lower space of the equipment is less than 2U, a fan shall be added to assist heat dissipation. Fan connection is shown in the figure below.



Figure 73. Fan Connection

Remove the cover plate of the end face joint and expose the joint DB15.



Figure 74. Fan Connection with DB15

Connect DB15.



Figure 75. Fan Installation

Four screws securing the fan module.

2.6.8 Mount the dMRU

The dMRU may be mounted on cabinet.

Push the cabinet into place and secure the four 4 screws.



Figure 76. Rack Installation

谢话 Win

2.6.9 Wall mounted installation



Figure 77. Wall mounted installation



Figure 78. Wall mounted installation



Figure 79. Wall mounted installation

The installation steps are as follows:

Step 1: Determine the installation position based on the dimensions of the mounting rack, drill holes in the wall according to the positions of the mounting holes, and prepare to install M10*110 expansion screws.

Step 2: Fix the mounting rack on the wall with 8 M10*110 expansion bolts, as shown in Figure 77.

Step 3: Put the device first on the mounting rack to hang nails, straighten the position;

Step 4: Connect the device and the mounting rack with 3 M8x16 bolts. All devices and the mounting rack are connected in the same way, as shown in Figure 78.

Step 5: If a shelter cover needs to be installed, determine the installation position based on the dimensions of the occlude cover. (The left and right sides of the shelter cover are centered on the left and right sides of the occlude cover, and the top of the occlude cover is as close as possible to the mounting rack to provide enough cable space at the bottom.) Drill holes in the wall according to the positions of the mounting holes, and prepare to install M10*110 expansion screws.

Step 6: Fix the cover to the wall with four M10*110 expansion bolts as shown in Figure 79.

2.6.10 Connect the rest of the Cables

For each of the units, connect the cables as follows:

- Ground, see 2.6.11
- Antenna, see 2.6.12

2.6.11 Ground

Note: Ground according to local regulations

The following additional (not supplied) tools and components are required for connecting the system ground:

- Grounding wire grounding wire should be sized according to local and national installation requirements. The provided grounding lug supports 6 AWG stranded copper wire conductors.
- 1. Use a wire-stripping tool to remove approximately 0.4 inch (10.9 mm) of the covering from the end of the grounding wire.
- 2. Insert the stripped end of the grounding wire into the open end of the grounding lug.
- 3. Crimp the grounding wire in the barrel of the grounding lug. Verify that the ground wire is securely attached to the ground lug by holding the ground lug and gently pulling on the ground wire.
- 4. Prepare the other end of the grounding wire and connect it to an appropriate grounding point at the site to ensure adequate earth ground.





Figure 80. GND Connection

2.6.12 Antenna

Connect the dMRU male 4.3-10 Type duplexed RF "ANTENNA" port to the broadband antenna(s) using appropriate coax cables.



Figure 81. Antenna Connection

2.6.13 Verify normal operation

The following Table describes the dMRU LED behavior.

MODULE LED	Outside the module		
Status	Description	Color	Status
Power Up	The dMRU was powered up	Green	Solid
RUN	The system is up and running	Green	Blinking (1Hz)
Identify	Identify dMRU was activated	Green	Blinking (2Hz)
Over temperature	The dMRU temperature exceeded the max range	Red	Blinking(1Hz)
Hardware Failure	Hardware failure occurred	Red	Solid



Figure 82. LED on dMRU

2.7 dHRU Installation

2.7.1 Verify box Contents

1. Open the package and verify all elements are available according to Table 20.

Table 21. dMRU Package Items List

Item	Quantity	Image	Part Number
HARDWARE – provided in the box			
dHRU unit	1		dHRU-G2- 6/7/85/1719/23
HARDWARE – not provided			
4 screws #8 or 4 mm (for attachment to ceiling)	4		
SFP+ Pluggable Transceivers (hot-pluggable optical transceiver module); Support for option 8 line-rate 24.3 Gbps, single mode	2	NT BAR	
Optical cables Up to 10 km LC/UPC SM DX			
SOFTWARE			
NA			
Required TOOLS			
Phillips Screwdriver	1		

2.7.2 dHRU Dimensions



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Figure 83. dHRU Dimensions

Physical Dimensions		
Dimension (W x H x D) (approx.	Inch (mm)	21.7 x 3.1 x 14 (550 x 80 x 356)
Weight (approx.	Lbs. (Kg)	40.8(18.5)

2.7.3 dHRU Interfaces



Figure 85. dHRU Back View

Connectors	
Antenna Ports	2, 4.3-10 female
Couple Ports	2, QMA female
CPRI Port	2, SFP+ 24.3Gbps
Management Ports	1, RJ45
Power Port	1, C016 20C003, male
Ground	1, Two holes M6

2.7.4 Cables Connection

For each of the units connect the external cables as follows:

- Power, see 2.7.5
- SFP+, see 2.7.6

2.7.5 Power

Connect the AC wire to the dHRU connectors panel



Figure 86. dHRU Connectors Panel

Figure 87. SFP Connector

2.7.6 SFP+ Cables

Remove the rubber stopper from the SFP+ connector located in the dHRU CPRI port Connect the SFP+ LC/UPC SM DX optic cable to the dHRU optic connector.







SFP+ Pluggable Transceivers

SFP+ Cable

Figure 88.SPF and Optical Cable

2.7.7 Wall mounted installation

The specific installation steps are as follows:

Step 1: Determine the installation position based on the external dimensions of the mounting bracket, drill holes on the wall according to the position of the mounting bracket fixing holes, and prepare to install M10 * 110 expansion screws;

Step 2: Use 8 M10 * 110 expansion bolts to fix the installation bracket to the wall, as shown in the figure below;



Figure 89. Wall mounted installation

Step 3: Hang the equipment on the mounting bracket and set it in the correct position;



Figure 90. Wall mounted installation

Step 4: Use 3 M8 ×16 combination bolts to fix the dHRU unit up and down. Pay attention to inspection, and the bolts must have corresponding specifications of spring washers and flat washers, and be sure to tighten them, as shown in the figure below;



Figure 91. Wall mounted installation





Figure 92. Complete the installation

2.7.8 Connect the rest of the Cables

For each of the units, connect the cables as follows:

- Ground, see 2.7.9
- Antenna, see 2.7.10

2.7.9 Ground

Note: Ground according to local regulations

The following additional (not supplied) tools and components are required for connecting the system ground:

- Grounding wire grounding wire should be sized according to local and national installation requirements. The provided grounding lug supports 6 AWG stranded copper wire conductors.
- 1. Use a wire-stripping tool to remove approximately 0.4 inch (10.9 mm) of the covering from the end of the grounding wire
- 2. Insert the stripped end of the grounding wire into the open end of the grounding lug
- 3. Crimp the grounding wire in the barrel of the grounding lug. Verify that the ground wire is securely attached to the ground lug by holding the ground lug and gently pulling on the ground wire
- 4. Prepare the other end of the grounding wire and connect it to an appropriate grounding point at the site to ensure adequate earth ground





Figure 93. GND Connection

2.7.10 Antenna

Connect the dHRU male 4.3-10 Type duplexed RF "ANTENNA" port to the broadband antenna(s) using appropriate coax cables.



Figure 94. Antenna Connection

2.7.11 Verify normal operation

The following Table describes the dHRU LED behavior.

MODULE LED	Outside the module		
Status	Description	Color	Status
Power Up	The dHRU was powered up	Green	Solid
RUN	The system is up and running	Green	Blinking (1Hz)
Identify	Identify dHRU was activated	Green	Blinking (2Hz)
Over temperature	The dHRU temperature exceeded the max range	Red	Blinking(1Hz)
Hardware Failure	Hardware failure occurred	Red	Solid



Figure 95. LED on dHRU

3. GUI – General Description

This section provides general guidelines and tools for navigating the system GUI:

- Screen layout, see 3.1
- Main menu options, see 3.2.
- Default network settings, see 3.3.
- Supported access options, see 3.3

3.1 Screen Layout

The Information board (located at the top of the window) lists the device information.

The Navigation board (located on the left down of the window) lists the device and their functions.

The Control board (located on the right down of the window) lists the control functions.

CORNING EVERON™ 600	0 SOLUTI	ONS								Q 🔛	🖾 admin .
		Equipment ModelRIU-G2-6Equipment SNT600002Firmware Version23.4.2.11_Everon_6000_RIU_P2.V02.00.00.05Hardware Version3Band600Site Info.UNKNOWN			Information board						
< Dashboard	Overview		RIU 1	RIU 2					Powe	r Sharing B	y DCU:
DCU	More	CH.	Band	Work Mode	High Gain Mode	Max. Pwr_In	DL Pwr_in	RF Switch	UL ATTN		ALC Switch
	>	1	600	[™] Tx/Rx	[™] OFF	37dBm	<10dBm	[™] ON	[™] 0dB	[™] 0dB	[™] ON
III RIU	>	2	600	[©] Tx/Rx	OFF	37dBm	<10dBm	ON	[©] 0dB	©0dB	ON
	>	3	600	^{te} Tx/Rx	L ^C OFF	37dBm	<10dBm	^{L®} ON	[©] 0dB	©0dB	^{LO} ON
Function	>	4	600	[™] Tx/Rx	OFF	37dBm	<10dBm	ON	^I OdB	©0dB	ON
	>	5	600	^{III} Tx/Rx	[™] OFF	37dBm	<10dBm	[™] OFF	^{IZ} 0dB	^{IZ} 0dB	[™] ON
Lloor	>	6	600	[⊠] Tx/Rx	[™] OFF	37dBm	<10dBm	^I OFF	^{IZ} 0dB	^{IZ} 0dB	[™] ON
<u> </u>	>	7	600	[™] Tx/Rx	COFF	37dBm	<10dBm	[©] OFF	^{IZ} 0dB	^{IZ} 0dB	[™] ON
	>	8	600	[™] Tx/Rx	[™] OFF	37dBm	<10dBm	[™] OFF	^{IC} 0dB	[⊠] 0dB	[™] ON
Motification	<									Contro	i board 🕠
	Nav	vigat	ion bo	ard							



3.2 Function Options

The function options on the Web-GUI are listed in the following Table.

Function	Description
Device info	View the system topology and info about different system elements
Reset	Software reset for the selected device
Firmware	Upgrade or downgrade the firmware
Alarm Setting	Set the alarm including alarm enable/disable, alarm threshold
Import & Export	Import or export the config file
Log	Import or export the log file
Comm. Setting	Communication setting on the SNMP parameters
IP Setting	IP setting for the device
Site Report	Site information inventory

3.3 Supported Access Options

This section describes the HW and SW required for connecting to the HCM.

First, connect to the HCM with a laptop or a tablet.

The following browsers are supported:

- Microsoft Internet Explorer 11.0 and above
- Mozilla Firefox 42.0, 43.0 and above
- Google Chrome 45.0, 46.0 and above

After the initial configurations are done, it is recommended to establish remote access to the HCM by using the following:

LAN Ethernet connection to the HCM with a minimum connectivity and throughput capability of 256 Kbp

4. Session Access and first-time settings

When all the system elements are installed, the system administrator can login the system GUI and perform initial configurations.

It is recommended to start using Corning [®] Everon[™] 6000_G2 and the specific steps are as follows:

- Commission a local session to the DCU
- Configure the LAN IP settings
- Perform the initial configurations (commissioning)

4.1 Commission a Local Session

The following are the instructions for commissioning a local management session to perform basic system configurations via the system GUI.

> To enter the system GUI

1) Connect a computer (e.g., laptop) to the DCU OMT port via an RJ45 CAT 5 Ethernet cable as shown below:



Figure 97. GUI Connection

*Notes:

- The LOCAL port is set to a static IP Address by default: 192.168.8.101;
 - Subnet Mask: 255.255.0.0. Your laptop/tablet network parameters must be set to match the subnet of the default IP address.
- The laptop/tablet IP address must be different from the LOCAL port IP address.
 - 2) Follow the steps below to set up your laptop/tablet network parameters (the steps may vary slightly depending on the OS version used):
 - a. Click Start \rightarrow Settings \rightarrow Network & Internet



Figure 98. Network & Internet setting

b. Select Ethernet -- Change adapter options

← Settings		- 5 ×
Home Find a setting	Ethernet Ethernet	Related settings Change adapter option
Network & Internet Status Wi-Fi Ethernet Dial-up VPN Airplane mode I Mobile hotspot Data usage Proxy	F Unidentified network No Internet F corning.com Connected	Change advanced sharing options Network and Sharing Center HomeGroup Windows Firewall Make Windows better Give us feedback

Figure 99. Ethernet setting

c. Right click on the Ethernet 3 and select Properties.



Figure 100. Ethernet 3

d. Select Internet Protocol Version 4 (TCP/IPv4) and click Properties



Figure 101. Ethernet 3 properties

- i. Type in the IP address 192.168.8.3 and subnet mask 255.255.0.0 click OK
- ii. Examples of IP addresses:
 - Allowed: 192.168.8.3
 - Not allowed: 192.168.8.101 (this IP is used by the LOCAL port).
- iii. Click **OK** and close the control panel

🛱 E	General		
Netv	You can get IP settings assigned au supports this capability. Otherwise, administrator for the appropriate IP	tomatically if your network you need to ask your network settings.	
	O <u>O</u> btain an IP address automati	cally	
	• Use the following IP address:		
Th	IP address:	192.168.8.3	
	S <u>u</u> bnet mask:	255.255.0.0	Set the IP address
	<u>D</u> efault gateway:	· · ·	according to the default IP address of
	Obtain DNS server address au	tomatically	the LOCAL port and
	Use the following DNS server a	addresses	the subnet mask.
<	Preferred DNS server:		
	Alternative DNS server:		
	Validate settings upon exit	Ad <u>v</u> anced	
		OK Cance	1
		OK Cancel	

Figure 102. General setting

 Once the connection is established (can be verified by accessing through command prompt: cmd-ipconfig), open a browser and type in the LOCAL port default IP address in the address bar: https://192.168.8.101.

5. Commissioning

Configuring the Corning [®] Everon[™] 6000_G2 system for each frequency requires a basic understanding of link, budgets, and RF technology. Most system commissioning should be adjusted based on the site requirements and instructions of Corning Support.

webGUI Workflow



Figure 103. webGUI Workflow

*Note: In order to protect the whole system, please keep no signal injection into eNodeB before commissioning.

Headend Units – Architecture Example: 2x2 MIMO, 1 Operator.









Commissioning tools:

Tools	Description
Laptop	Debug tool
Network cable	Connect DCU OMT port with laptop

Note: The RIU-G2-7 input ports are different, RIU input port1,3,5,7 for 700L band and port2,4,6,8 for 700U band.





Limitation: In the current design, all the SFP connections (between DCU and DEU, DEU and dLRU) cannot be cross connected.

The following connection is supported:

DCU Port1 <--> DEU PortA

DCU Port2 <--> DEU PortB

DEU Port1 <--> dLRU-3.5 Port1 DEU Port2 <--> dLRU-3.5 Port2 DEU Port3 <--> dMRU-3.5 Port1 DEU Port4 <--> dMRU-3.5 Port2

If the SFP is cross connected between DCU and DEU, the cross status will be shown on DEU web.

- 1. dLRU-3.5 and dMRU-3.5 support 8 carriers in one sub-band, and totally 16 carriers supported.
- 2. This version is based on build 8 for dLRU-G2-25 and dMRU-G2-25 upgrade.

Case: take dLRU fiber connection as an example.



Note:

- > DEU-10G is defined as 4 groups, each group includes 6 ports
- Each group can be set to
 - 1 fiber is connected to one device (dLRU-678)
 - 2 fibers are connected to one device (dLRU-17192325)
- Connect the same devices to the same group
- dLRU-17192325 need to be connected to the same pair SFP, such as OP1&OP2, OP3&OP4, OP5&OP6, but cannot be connected to unpaired ports such as port 1&5, 2&3
 Cross connection (OP1<->OP2) is NOT supported in build 8

Limitation2: The EAWS channel configuration of DCU should be EAWS+ EAWS or EAWS + 1900B. If configure the channel as EAWS + N/A, it may cause a spurious signal in DL 2155Mhz.

5.1 RIU Config

5.1.1 RIU WEB overview

Click RIU on the left side shown in Figure 104 to enter the RIU overview control interface where the information (e.g., RIU alarm) can be viewed. Drag the scroll bar under the information list box or the arrow in in the column of More to view more.

Configure the following parameters:

- Band: Read Only. This shows the current frequency band supported by the RIU
- Combiner Mode: 8T01/4T01/2T01

CORNING EVERON [™] 600	00 SOLUTI	ONS							Q 💥 🛛	admin+
	1. Jan	ц	7	DCU ID RIU Number	0 1		-			
< Dashboard	Overvie Batch	w	RIU 1							
DCU	More	RIU ID	Band	Combiner Mode	Site Info.	Temperature	Firmware Version	Equipment SN	RIU Alarm	Fan Alarm
III RIU	> 4	1	N3500A	[™] 4TO1	BUNKNOWN	38°C	23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	0722507043	2 ([™] 🎱
Function										
Liser										
Notification Program										
C rogan										

Figure 104. RIU-TDD overview

CORNING EVERON [™] 600	0 SOLUTI	ONS									Q 👯 🖾 admin+
1 mar . * 1	E I			DCU IE RIU Nu	o 0 mber 2						
< Dashboard	Overvi Batch	ew		RIU 1	RIU 2						
💻 DCU	More	RIU ID	Band	Combiner Mode	Site Info.	Temperature	Firmware Version	Equipment SN	~ RIU Alarm	Fan Alarm	Temperature Alarm
	>	1	600	¹² 2TO1	[™] UNKNOWN	37*C	23.4.2.11_Everon_6000_RIU_P2.V02.AA.00.05	T600002	e 🕘	× 🕘	2 O
III RIU	>	2	WCS	¹² 2TO1	[™] UNKNOWN	37°C	23.4.2.11_Everon_6000_RIU_P2.V02.AA.00.05	072251F020	E 🔴	° 😑	8 📀
 Function User Notification Program 	4										Þ

Figure 105. RIU-FDD Overview

Note: RIU supports 3 working modes (2 to 1, 4 to 1, 8 to 1).

2 to 1, 4x4 MIMO for up to 2 groups. Duplexer (TX/RX1&2 for MIMO1, TX/RX3&4 for MIMO2, TX/RX5&6 for MIMO3, TX/RX7&8 for MIMO4), Simplexes (TX1/RX5 for MIMO1, TX2/RX6 for MIMO2, TX3/RX7 for MIMO3,TX4/RX8 for MIMO4)

4 to 1, 2x2 MIMO for up to 4 groups. Duplexer (TX/RX1&2&3&4 for MIMO1, TX/RX5&6&7&8 for MIMO2), Simplexes (TX1/RX5 for MIMO1, TX2/RX6 for MIMO2)

8 to 1, SISO for up to 4 groups. Duplexer (TX/RX1~8 all for SISO), Simplexes (TX1/RX5 for SISO)

5.1.2 RIU Parameter Config

RIU parameters:

SN	RIU Paran	neters	Ranges	Default Values	Remark
1	Work M	lode	TxRx/Tx/Rx	TxRx	
2	High Gain Mc	ode (FDD)	ON/OFF DL gain=-30 dB/-7 dB UL gain=-40 dB/-20 dB	OFF (DL: -30 dB gain,UL: - 40dB)	ON (DL: -7 dB Gain,UL: -20dB) Support DL/UL high gain mode
	High Gain Mo	ode (TDD)	ON/OFF DL gain=-30 dB/-7 dB	OFF (DL: -30 dB gain)	ON (DL: -7 dB Gain) Support DL high gain mode
3	DL Pwr	_in	Read only	Read only	Downlink input power
4	RF Swi	tch	On/Off	On	
5	UL AT	ΓN	0~25 dB	20 dB	RIU uplink ATT
6	DL AT	٢N	0~25 dB	20 dB	RIU downlink ATT
7	ALC Sw	ALC Switch		ON	
		ALC Level	ON: -11~9 dBm	7 dBm	
8	High Gain Mode =ON	DC Input Overload THR	-13~12 dBm	12 dBm	
		DC Input Lower THR	-25~12 dBm	-15 dBm	
		ALC Level	OFF: 12~32 dBm	30 dBm	
9	High Gain Mode =OFF	DL Input Overload THR	12~37 dBm	37 dBm	
		DL Input Lower THR		10 dBm	

> To configure RIU parameters

1. In the dashboard, click RIU NE in the topology and enter RIU info page.



- 2. In the main menu options, click RIU-RIU 1 or 2 and the configuration page appears.
- 3. In the displayed page, click ^{III} to configure each field (Work mode, High Gain Mode, RF Switch, UL ATT, DL ATT, ALC Switch, ALC Level, DC Input Overload THR, DC Input Lower THR).
- 4. For UL/DL Slot Configuration, Special Sub Configuration, Sub Carrier Spacing, click the arrow to

show the listed optional values and select one; Then click Save .

to complete the settings.

5. For User Set CF 1~8 and SSB Auto Search Switch, scroll the bar or click the arrow under **More** to fill in relevant values within the range according to the parameters above. Next click Finish

CORNING EVERON [®] 60	00 SOLUTI	ONS	7	Equipment Mo Equipment SN Firmware Vers Hardware Vers Band Site Info.	del RIU-G2-35 0722507043 ion 23.4.1.11_Ev ion 1 N3500A UNKNOWN	eron_6000_RIU_	P2.V01.00.00.1	1		- -C	م 	20 a	<mark>1min →</mark>
< Dashboard	Overview		RIU 1								D Ol		
💻 DCU	Batch More	CH.	Band	Work Mode	High Gain Mode	Max. Pwr_In	DL Pwr_in	RF Switch	UL ATTN	DL ATTN	ALC Switch	ALC Level	DLI
III RIU	>	1	N3500A N3500A	[™] Tx/Rx [™] Tx/Rx	©OFF ©OFF	37dBm 37dBm	<10dBm <10dBm	[™] OFF [™] OFF	[™] 0dB	[™] 0dB	[™] ON [™] ON	¹²³ 30dBm ¹²³ 30dBm	
	>	3	N3500A	[⊠] Tx/Rx	[™] OFF	37dBm	<10dBm	[™] OFF	[⊠] 0dB	[⊠] 0dB	[™] ON	[⊠] 30dBm	
Function	>	4	N3500A	[™] Tx/Rx	©OFF	37dBm	<10dBm	OFF	^{III} 0dB	^{III} 0dB	CON	¹² 30dBm	
	>	5	N3500A	[™] Tx/Rx	OFF	37dBm	<10dBm	OFF	©0dB	©0dB	ON	©30dBm	
💄 User	>	6	N3500A	Tx/Rx	OFF	37dBm	<10dBm	OFF	OdB Cours	OdB	ON	SodBm	
	>	7	N3500A		CFF	37dBm	<10dBm	OFF	0dB	UdB CodB	CON	-30dBm	
Notification	4	0	NODUA	1.XRX	JFF	57dbiii	< roabiii	OFF	Jub	Jub	UN	SUUDIII	• •
Program													

Figure 106. RIU-TDD information

Equipment Model RU-92-6 Equipment SN Equipment Model RU-92-6 Equipment SN Equipment SN SN SN SN	NING EVERON [™] 6000	SOLUTI	ONS												🔍 👯 🖪 admin
Destboard Overwing RU 1 RU 2 Dot Bask Function Bask More Mode May Mode Max. Pwr_In DL Pwr_In RF Switch ULATTN LLC Switch ALC Level DL Input Overload larm DL Input Shutdown Alar RU 3 1 600 ⁴⁷ TxRx ⁴⁰ OFF 37dBm <10dBm	Hu.* II	ЦJ		ŋ.	J	Equipment Model Equipment SN Firmware Version Hardware Version Band Site Info.	RIU-G2-6 T600002 23.4.2.11_E 3 600 UNKNOWN	veron_6000_RI	U_P2.V02.AA	00.05		D			
DCU CH. Band Work Mode High Gain Mode Max. Pwr_In DL Pwr_In RF Switch UL ATTN DL ATTN ALC Switch ALC Level DL Input Overload Alarm DL Input Switch DL Input Switch ALC Level DL Input Overload Alarm DL Input Switch ALC Switch ALC Level DL Input Switch DL Input Switch DL Input Switch ALC Level DL Input Switch DL Input Switch DL Input Switch ALC Level DL Input Switch DL Input Switch DL Input Switch DL Input Switch ALC Level DL Input Switch Max <	Dashboard	Overvie Batch	ew		RIU 1	RIU 2								Power S	haring By DCU:
RU 1 600 ⁴⁷ TxRx ⁴⁰ OFF 37dBm <10dBm	DCU	More	CH.	Band	Work Mode	High Gain Mode	Max, Pwr. In	DL Pwr in	RF Switch	UL ATTN	DL ATTN	ALC Switch	ALC Level	DL Input Overload Alarm	DL Input Shutdown Alam
RIU 2 800 ⁶⁷ TxRx ⁶⁷ OFF 37dBm <10dBm ⁶⁷ ON ⁶⁷ OdB ⁶⁷ OdB ⁶⁷ ON ⁶⁷ OdB ⁶⁷ ON ⁶⁷ OdB ⁶⁷ OdB ⁶⁷ ON ⁶⁷ OdB ⁶⁷ OdB ⁶⁷ ON ⁶⁷ OdB ⁶⁷ O		>	1	600	[⊠] Tx/Rx	[⊠] OFF	37dBm	<10dBm	[™] ON	[⊠] 0dB	[™] 0dB	[⊠] ON	^{III} 32dBm	E 😜	× 😜
Function > 3 600 ⁶⁷ DrRx ⁶⁰ OFF 37dBm <10dBm ⁶⁰ OR ⁶⁰ OdB ⁶⁰ OR ⁶² OdB ⁶⁰ OR ⁶² OdB ⁶⁰ OR ⁶² OdB ⁶⁰ OR ⁶² OdB ⁶⁰ OdB	RIU	>	2	600	[⊠] Tx/Rx	[™] OFF	37dBm	<10dBm	[™] ON	¹² 0dB	[⊠] 0dB	®ON	¹² 32dBm	E 😑	E 😑
y 4 600 [®] TxRx [®] OFF 37dBm <10dBm [®] ON [®] OdB [®] ON [®] 32dBm [®] O [®] O > 5 600 [®] TxRx [®] OFF 37dBm <10dBm		>	3	600	[™] Tx/Rx	[™] OFF	37dBm	<10dBm	[™] ON	[⊗] 0dB	[⊠] 0dB	¹² ON	[™] 32dBm	E 🕥	E 🗿
Set 5 600 ^{def} Tx/Rx ^{def} OFF 37dBm <10dBm ^{de} OFF ^{de} OdB ^{de} OdB ^{de} ON ^{de} 32dBm ^{de} O ^{de} O > 6 600 ^{de} Tx/Rx ^{de} OFF 37dBm <10dBm	unction	>	4	600	[⊠] Tx/Rx	^{III} OFF	37dBm	<10dBm	[™] ON	[⊠] 0dB	[⊠] 0dB	^{III} ON	^{III} 32dBm	E 📀	E 😮
Ser 6 600 67xRx 60FF 37dBm <10Bm 60FF 60dB 60A 62dB 62DB 60A 62DB 62DB<	anoson	>	5	600	[⊠] Tx/Rx	^{III} OFF	37dBm	<10dBm	¹² OFF	[⊠] 0dB	[⊠] 0dB	[™] ON	[⊠] 32dBm	20	20
Xeir > 7 600 ¹⁶ Tx/Rx ¹⁶ OFF 37dBm <10dBm ¹⁶ OFF ¹⁶ OdB		>	6	600	[™] Tx/Rx	[™] OFF	37dBm	<10dBm	[™] OFF	[⊠] 0dB	[⊠] 0dB	CON	^{III} 32dBm	E 😑	8 <mark>()</mark>
> 8 600 ^{CE} Tx/Rx ^{CE} OFF 37dBm <10dBm ^{CE} OFF ^{CE} 0dB ^{CE} 0dB ^{CE} ON ^{CE} 32dBm ^{CE} O			-	600	[™] Tx/Rx	©OFF	37dBm	<10dBm	¹² OFF	[⊠] 0dB	¹² 0dB	¹² ON	[™] 32dBm	E 🕥	E 😜
	Jser	>	(Corr	Co.in	Cour	CON	CoolDer	C 🔿	C 👝
	User Notification	>	8	600	[⊠] Tx/Rx	¹² OFF	37dBm	<10dBm	OFF	-0dB	UGB	-0N	-320Dm		,
Program	User Notification Program	>	8	600	[⊠] Tx/Rx	CFF	37dBm	<10dBm	-OFF	-09B	Udb	UN	320bm		,
Program	User Notification Program	>	8	600	[™] Tx/Rx	[™] OFF	37dBm	<10dBm	-0++	-098	UUB		-32dDm	•	•
Program	User Notification Program	>	8	600	[™] Tx/Rx	COFF	37dBm	<10dBm		_008	UGB		-32dDm	•	,
Program	User Notification Program		8	600	[™] Tx/Rx	^{III} OFF	37dBm	<10dBm		_008	UGB		-320Dm	•	

Figure 107. RIU-FDD information

You can also click Batch button to set the parameters.

						Setting			- 11				Q 💱 🖪 admin⊬
					Equipment Mc Equipment SN	X	* Work Mode Sel	lect ~			_		
	H	11	EEJ.		Hardware Vers Band Site Info.		High Gain Mode OFF	ON]				
< Dashboard	Ow	erview		RIU 1		DL Inpi	ut Overload Alarm Disab	le Enable					
	Batch											Power Sha	ring By DCU:
🛄 DCU	More	CH.	Band	Work Mode	High Gain Mode	DL Input	t Shutdown Alarm Disab	e 🕖 Enable	A	LC Level	DL Input Overload Alarm	DL Input Shutdown Alarm	DL Input Lower Alarm
	\rightarrow	1	N3500A	[©] Tx/Rx	COFF	L			-	³ 30dBm	E 🕘	²² 🔴	20
	>	2	N3500A		CFF				-	² 30dBm	6	*0	6 0
		3	N3500A	Tx/Rx	^{COFF}	DLI	Input Lower Alarm Disab	le 📃 Enable		30dBm	200 200	200 200	80
Function		5	N3500A		OFF					² 30dBm	200	20	20
	>	6	N3500A	[®] Tx/Rx	²² OFF					² 30dBm	2 O 2	× •	C ()
		7	N3500A		[™] OFF		Service Off ALarm Disab	le De Enable		² 30dBm	E 🕥	E 🕘	
Notification	>	8			[™] OFF						6° 3	¹² 🕥	^e O
	K.	_	_				RF Switch OFF	ON		_			,
						L							
							ALC Switch OFF	ON ON					
						L			-				
						DL Input Over	1oad THR(dBm) 🛛						
						DL Input Lo	ower THR(dBm) 🛛						
							Finish		- 11			0	CORNING all right reserved
							Call						

Figure 108. RIU Batch Setting

5.2 DCU Config

Note: The max network topology would be 4:16:192(DCU star and DEU daisy chain connection).

5.2.1 DCU -> Dashboard

Click the Dashboard navigation button to enter the dashboard page, where you can query the full topology of all the dependent NE connected to the DCU unit. Click NE ID in the topology, and switch to the info query and configuration management page of other NE to facilitate the user.

CORNING EVERON [™] 60	00 SOLUTIONS			Q 👯 🗷 admin+
		DCU ID Equipment Mode Equipment Model Equipment SN Firmware Version Hardware Version Site Info	0 Primary DCU-G2 0722497019 23.4.1.11_Everon_6000_DCU_P2.V01.00.03.83 3 NA	
< Dashboard				Compare with BaseLine: 🔵 🏠
DCU				
III RIU				
Function		6 A B		
💄 User		DEU1-1		
Notification		CD		
Program	4			· · · · · · · · · · · · · · · · · · ·

Figure 109. DCU dashboard

5.2.1.1 DCU Alarm

SN	DCU parameters	Range	Default values	Remark
1	Temperature THR	0~125 °C	80 ℃	Temperature threshold
2	Power Temperature THR	0~125 ℃	80 ℃	Power supply unit temperature threshold
3	Optical Module Temperature THR	0~125℃	80 °C	Optical Module Temperature threshold
4	System Delay THR	-99999999999ns~9999999999ns	60000ns	System delay threshold

On the left navigation page of the DCU unit, click DCU \rightarrow Alarm. All alarm quantities of the device are displayed to facilitate the user to query and monitor the alarm info.

۶ To configure DCU alarm parameters

- Click DCU—Alarm Info to enter the configuration page. 1.
- and Disable and Enable button can be seen. Select Enable then the green icon 2. For alarms, click Disable (Enable will be displayed
- For Temperature THR, Power Temperature THR, Optical Module Temperature THR, System Delay THR, 3. click

to enter the values within the range according to the form above.

Finish 4. **Click Finish** to complete the setting.

CORNING EVERON™ 6000 SOLUTIONS			Q 🔮 🖬 admin+
	DCU ID 0 Equipment Mode Pimary Equipment Model DCU-02 Equipment SN 0722497019 Firmware Version 23.4.1.1_Everon_6600_DCU_P2.V01.00.03.83 Sitle Info NA		
Alarm Info OP Info	RF Config TDD Config CPRI Config Batch		
💻 DCU	Name	Value	
	Equipment Alarm	•	
III RIU	DC Voltage Lower Alarm	[™] • •	
	Fan Alarm 1		
Function	Fan Alarm 2		
	Fan Alarm 3		
🔍 User	Fan Alarm 4		
	Temperature Alarm		
A Melification	Power Temperature Alarm		
Nouncation	Digital HW Alarm		
	Digital Unlock Alarm		
O Program	System Delay Alarm		
	Firmware Mismatch Alarm	* •	
	Baseline Alarm	0	
	TDD-NR SYNC Alarm		
	TDD-LTE SYNC Alarm		
	Calibration Alarm		
	Power Sharing Alarm	E O	
	Temperature THR		
	Power Temperature THR	-80°L	
	Optical Module Temperature THR	80°C	
	System Delay THR	-70000ns	

Figure 110. DCU alarm info

Click Batch button to enable/disable all alarms. And then click Finish/Cancel to complete the setting.



Figure 111. DCU alarm info-Batch-Enable switch

5.2.1.2 DCU OP

5.2.1.3 Info

In this window, users can query the information of all optical ports.

CORNING EVERON [™] 60	00 SOLUTI	ONS										Q 💥 🖪 a	admin
		ijĮ	DC EC EC Fii Ha Si	CU ID quipment Mod quipment Mod quipment SN rmware Versid ardware Versid te Info	0 le Primar lel DCU-0 072249 on 23.4.1. on 3 NA	y 32 97019 11_Everon_6000_	_DCU_P2.V0	1.00.03.83			_		
< Dashboard	Alarm Inf Batch	o 📕	OP Info	RF Cont	īg -	TDD Config	CPRI Con	fig					
	More	OP Port	~ Temperature	Tx Power	Rx Power	Optical Loss	Tx Alarm	Rx Alarm	Sync Alarm	Link Alarm	Manufacturer Alarm	Temperature Alarm	~
	>	А	N/A	N/A	N/A	N/A	E 🕥	2 🕑	E 📀	9	200	E 🔵	
	>	В	N/A	N/A	N/A	N/A	2 🕥	2 ()	¹² 🕘	0	۲ 🕥	² 🕘	
III RIU	>	С	N/A	N/A	N/A	N/A	² 😑	E 😜	¹² 😑	9	۲ 📀	۲ 😑	
	>	D	N/A	N/A	N/A	N/A	2 <mark>0</mark>	° 😜	^C 😕	9	۵ 🕑	۲ 🕑	
Function	>	E	N/A	N/A	N/A	N/A	E 🕥	C 😑	^с 📀	9	۳ 🕥	C 😑	
	>	F	N/A	N/A	N/A	N/A	E 🕥	E 🕥	2 🕥	0	E 🕥	2 🕥	
💄 User	>	1	46°C	-1.08dBm	-2.27dBm	1.1dB	E 😑	E 😑	2 😑	0	E 😑	2 😑	W1
	>	2	47℃	-0.83dBm	-1.17dBm	1.03dB	E 😑	2 😑	2 😑	0	E 😏	2 💮	W1
Notification	>	3	N/A	N/A	N/A	N/A	E 🕥	E 🕥	E 🕥	0	E 🕥	E 😑	
	>	4	N/A	N/A	N/A	N/A	E 🕥	2 🕑	¹² 🙂	0	C 😑	C 😑	
A Drogram	>	5	N/A	N/A	N/A	N/A	E 😑	2 😑	E 📀	0	E 😑	2 😁	
· Program	>	6	N/A	N/A	N/A	N/A	E 😑	2 😑	E 📀	0	E 📀	2 😔	
	>	7	N/A	N/A	N/A	N/A	E 🕥	E 🕥	E 🕘	0	۵ 🍅	E 🕘	

Figure 112. DCU OP info

- To configure the OP Info ⊳
- 1. Click the left navigation button DCU OP Info.
- Ľ in front of the alarm indicator to enter the alarm Enable and Disable settings Click the edit icon 2. page.
- Then click Finish button 3.

to complete the setting, as shown below.

EVERON [™] 60	00 SOLUTI	ONS											Q X 🖬	adm
				DCU ID Equipm Equipm Firmwai Hardwai Site Info	ent Mode ent Model ent SN re Version re Version	0 Primary DCU-G2 0722497019 23.4.1.11_Evero 3 NA	on_6000_DCU	L_P2.V01.00.0	3.83		•			
bboard	Alarm I	nfo	OP Info	F	RF Config	TDD Cor	nfig	CPRI Config)					
board	OP Info													
U	Batch													
	More	OP Port	Temperature	Tx Power	Rx Power	Optical Loss	Tx Alarm	Rx Alarm	Sync Alarm	Link Alarm	Manufacturer Alarm	Temperature Alarm	SN 🗢	\sim
	>	А	N/A	N/A	N/A	N/A	² 🕘	۳ 🕥	× 🎱		× 🕘	۳ 🕥	N/A	
	>	В	N/A	N/A	N/A	N/A	° 🕘	20	۳ 🕥	Θ Γ	2	- ² 🔴	N/A	
cuon	>	С	N/A	N/A	N/A	N/A	2 😮 🕗	° 😑	E 😑	0		C 😑	N/A	
			N/A	N/A	N/A	N/A	° 😑	° 😑	C 😑	9		C 😑	N/A	
	>					NI/A	2 <u>_</u>	E 👝	E 👝			۲ <u>م</u>	N/A	
	>	E	N/A	N/A	N/A	N/A	-	-	-	L				
	> > >	E	N/A N/A	N/A N/A	N/A N/A	N/A N/A	2 0 N	C 0	E O	i i i	۳ 🕒		N/A	
cation	> > > >	E F 1	N/A N/A 46°C	N/A N/A -1.08dBm	N/A N/A -2.27dBm	N/A N/A 1.1dB		C O		0 0	Ľ O		N/A W10222800048	SF
cation	> > > > >	E F 1 2	N/A N/A 46°C 47°C	N/A N/A -1.08dBm -0.83dBm	N/A N/A -2.27dBm -1.17dBm	N/A N/A 1.1dB 1.03dB			C O		C () C () C ()		N/A W10222800048 W11223000099	SF
cation	> > > > >	E F 1 2 3	N/A N/A 46°C 47°C N/A	N/A N/A -1.08dBm -0.83dBm N/A	N/A N/A -2.27dBm -1.17dBm N/A	N/A N/A 1.1dB 1.03dB N/A				•			N/A W10222800048 W11223000099 N/A	SF
ication ram	> > > > > >	E F 1 2 3 4	N/A N/A 46°C 47°C N/A N/A	N/A N/A -1.08dBm -0.83dBm N/A N/A	N/A N/A -2.27dBm -1.17dBm N/A N/A	N/A N/A 1.1dB 1.03dB N/A N/A					2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5		N/A W10222800048 W11223000099 N/A N/A	SF
ication ram	> > > > > >	E F 1 2 3 4 5	N/A N/A 46°C 47°C N/A N/A N/A	N/A N/A -1.08dBm -0.83dBm N/A N/A N/A	N/A N/A -2.27dBm -1.17dBm N/A N/A N/A	N/A N/A 1.1dB 1.03dB N/A N/A N/A				0 0 0 0 0	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3		N/A W10222800048 W11223000099 N/A N/A N/A	SF
r lication Iram	> > > > > > >	E F 1 2 3 4 5 6	N/A N/A 46°C 47°C N/A N/A N/A N/A	N/A N/A -1.08dBm -0.83dBm N/A N/A N/A N/A	N/A N/A -2.27dBm -1.17dBm N/A N/A N/A N/A	N/A N/A 1.1dB 1.03dB N/A N/A N/A N/A							N/A W10222800048 W11223000099 N/A N/A N/A N/A	SF
r ification gram	> > > > > > > > >	E F 1 2 3 4 5 6 7	N/A N/A 46°C 47°C N/A N/A N/A N/A N/A	N/A N/A -1.08dBm -0.83dBm N/A N/A N/A N/A N/A N/A	N/A N/A -2.27dBm -1.17dBm N/A N/A N/A N/A N/A	N/A N/A 1.1dB 1.03dB N/A N/A N/A N/A N/A N/A					2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		N/A W10222800048 W11223000099 N/A N/A N/A N/A N/A	SF
er tification ogram	> > > > > > > > > > > > >	E F 1 2 3 4 5 6 7 8	N/A N/A 48°C N/A N/A N/A N/A N/A N/A	N/A N/A -1.08dBm -0.83dBm N/A N/A N/A N/A N/A N/A N/A	N/A N/A -2.27dBm -1.17dBm N/A N/A N/A N/A N/A N/A N/A	N/A N/A 1.1dB 1.03dB N/A N/A N/A N/A N/A N/A							N/A W10222800048 W11223000099 N/A N/A N/A N/A N/A N/A	SF

Figure 113. DCU OP Info

Disable/Enable Finish/Cancel

You can also click Batch button to directly set the parar	neters.
---	---------

CORNING EVERON** 60	00 SOLUTI	ONS					Q 💥 🖪 :	admin≁
		iil	DC Eq Eq Fir Ha Sit	Setting	×			
< Dashboard	Alarm In OP Info	fo	OP Info	Tx Alarm Disable Enable				
💭 DCU	Batch			Rx Alarm Disable Enable				
III RIU	More	OP Port	Temperature		Link Alarm	Manufacturer Alarm	Temperature Alarm	×.
	>	A	N/A	Sync Alarm Disable Enable		20	E \varTheta	
Function	X	В	N/A				6	
	×		N/A	Ū.	9	- <u>0</u>		
💄 User	X		N/A	Manufacturer Alarm Disable Enable	9			
	>	E	N/A					
Notification	2	F	N/A					
	2		45%	Temperature Alarm Dicable		2 A	E O	VV10
ී Program	2.	2	47.0			20	E	VV I
the riogram	2	3	N/A			20	E	_
		4	N/A			20	B	
			N/A	Finish Cancel	0	E O	E O	
	E.	7	N/A		-	2 A	E A	
							@ CORNING all righ	nt reserved

Figure 114. DCU—OP Info--Batch

5.2.1.4 DCU RF Config

SN	DCU RF Config Parameters	Ranges	Default Values	Remark
1	Band	Channel1-8 WCS/PCS/EAWS/2500/LowC/HighC Channel 9-16: 600/700/ESMR+850/PCS/EAWS/2500	N/A	If the 16 channels are divided into 4 groups (1-4, 5-8, 9-12, 13-16, EAWS-A and 1900B must be in the same group
2	BW	Read only	Read only	
4	Signal Mode	FDD/TDD-NR	TDD-NR	
5	RF Switch	ON/OFF	OFF	
6	UL ATTN	0~20 dB	20dB	
7	DL ATTN	0~20 dB	20dB	
8	High Gain Mode	ON/OFF	OFF(0dB)	
9	DL Overload THR	-40~10 dBm	10 dBm	

Note:

- One DCU has the limitation of radio band(channel). It supports max 8 bands of these 9 bands (N3500F/2500T/EAWS-A/1900B/WCS/600/700L+700U/ESMR+850/3500G)
- 2. The 3500F supports (3450~3700MHz), 3500G supports (3700~3980MHz)
- 3. If the bands are N3500F,2500T and N3500G, there are three signal modes to choose from including TDD-NR,TDD-LTE,TDD-LTE+TDD-NR. If select other bands, the signal mode can only be FDD.
- 4. If the TDD band(N3500F/2500T/3500G) is configured, the TDD parameters need to be configured.
- 5. The CPRI config interface is associated with all channels in RF config.

≻ To achieve RF config

- Click DCU RF Config to enter the page below. 1.
- in each field. Click the icon 2.
- Select one from the drop-down options (e.g., In Band, N3500G is selected). 3.
- For UL ATT, DL ATT, DL Overload THR, enter values within the range according to the parameters 4. form above.
- For RF Switch and High Gain Mode, select ON/OFF and Enable /Disable button. 5.
- Click Finish button 6.
- to complete the settings.

CORNING EVERO	N [™] 6000	SOLUTI	ONS														c	🔾 💱 🖾 admin-
DCU ID Equipment Mode Equipment Mode Equipment Workin Enternere Version Hardware Version Site Info						0 Primary DCU-G2 0722497019 23.4.1.11_E 3 NA	9 iveron_6000_	DCU_P2.V01	00.03.83									
< Dashboard		Alar	m Info		OP Info		RF Config	1	DD Config		CPRI Config							
		Batch														Power Sharing:	OFF	
The period		More	🗠 СН. 🗧	Band	RF BW	DL Center Freq	Signal Mode	RF Switch	UL ATTN	DL ATTN	Max. Pwr_In	DL Pwr_In	UL Pwr_out	AGC Value	High Gain Mode	DL Overload Alarm	Service Off ALarm	DL Overload THR
		>	1(SISO1)	²² N/A	N/A	N/A	¹² TDD-NR	[™] OFF	[™] 0dB	[™] 0dB	0dBm	N/A	N/A	N/A	¹² OFF	²² 🕘	²² 🙆	¹² 10dBm
III RIU		>	2(MIMO1)	[⊗] N/A	N/A	N/A	¹² TDD-NR	[⊗] OFF	[⊠] 0dB	12 0dB	0dBm	N/A	N/A	N/A	¹² OFF	¹² 🔴	° 🙆	¹² 10dBm
		>	3(SISO2)	²² N/A	N/A	N/A	¹² TDD-NR	[™] OFF	20dB	¹² 0dB	0dBm	N/A	N/A	N/A	¹² OFF	¹² 🕘	° 🕘	¹² 10dBm
Function		>	4(MIMO2)	[®] N/A	N/A	N/A	¹² TDD-NR	[™] OFF	¹² 0dB	¹² 0dB	0dBm	N/A	N/A	N/A	¹⁰ OFF	° \Theta	° 😜	¹² 10dBm
		>	5(SISO3)	² 2500	194MHz	2593MHz	TDD-NR	®OFF	© 0dB	© 0dB	0dBm	N/A	N/A	N/A	®OFF	2 😜	° 🔴	¹² 10dBm
💄 User		>	6(MIMO3)	2500	194MHz	2593MHz	TDD-NR	OFF	10 0dB	¹⁰ 0dB	0dBm	N/A	N/A	N/A	OFF	Ë 😕	° ⊖	¹⁰ 10dBm
			7(SISO4)	PCS	90MHz	1975MHz	FDD	© OFF	© 0dB	¹⁰ 0dB	0dBm	N/A	N/A	N/A	OFF	8 ()	8 <mark>0</mark>	¹² 10dBm
Notification		>	8(MIMO4)	PCS	90MHz	1975MHz	FDD	OFF	D 0dB	th 0dB	0dBm	N/A	N/A	N/A	OFF		- -	¹⁰ 10dBm
		>	9(SISO5)	¹⁰ PCS	90MHz	1975MHz	FDD	© OFF	¹⁰ 0dB	¹⁰ 0dB	0dBm	N/A	N/A	N/A	¹⁰ OFF	° 🕘		10dBm
(A) Decement		>	10(MIMO5)	PCS	90MHz	1975MHz	FDD	© OFF	¹² 0dB	¹⁰ 0dB	0dBm	N/A	N/A	N/A	OFF		° 🔴	10dBm
-rogram		>	11(SISO6)	~_N/A	N/A	N/A	"TDD-NR	~OFF	~OdB	¹⁰ 0dB	0dBm	N/A	N/A	N/A	"OFF	~ 0	~ 0	~ 10dBm
		>	12(MIMO6)	N/A	N/A	N/A	"TDD-NR	-OFF	OdB	^{orr} odB	OdBm	N/A	N/A	N/A	**OFF	~ 🙆	-0	~~ 10dBm
		>	13(SISO7)	N/A	N/A	N/A	TDD-NR	OFF	^{co} 0dB	¹⁰ 0dB	0dBm	N/A	N/A	N/A	OFF	- <u>-</u>	- <u>-</u>	^{cc} 10dBm
		>	14(MIMO7)	N/A	N/A	N/A	"TDD-NR	-OFF	"OdB	"OdB	0dBm	N/A	N/A	N/A	"OFF	··· 🕗	- 🕗	"10dBm
		>	15(SISO8)	N/A	N/A	N/A	TDD-NR	^{COFF}	¹⁰ 0dB	¹⁰ 0dB	0dBm	N/A	N/A	N/A	OFF			10dBm
		>	16(MIMO8)	N/A	N/A	N/A	"TDD-NR	-OFF	OdB	~ 0dB	0dBm	N/A	N/A	N/A	"OFF	~ <mark>0</mark>	- 0	¹⁰ 10dBm

Figure 115. DCU RF Config

You can also click Batch button to directly set the parameters.

CORNING EVERON [™] (Q 55	
	1 - 51 - 520000			DC Eq Eq Fir Ha Sit	Setting					
< Dashboard	Alarm In Batch	ifo	OP Info		High Gain Mode OFF ON		Powe	er Sharing:	OFF	~
💻 DCU	More	< сн. ♦	Band	RF BV		. Pwr_In	DL Pwr_In	UL Pwr_out	AGC Value	High Gain N
	>	1(SISO1)	[⊠] N/A	N/A	DL Overload Alarm Disable DL Duble)dBm	N/A	N/A	N/A	BOFF
	>	2(MIMO1)	[™] N/A	N/A	L)dBm	N/A	N/A	N/A	OFF
	\rightarrow	3(SISO2)	[™] N/A	N/A)dBm	N/A	N/A	N/A	OFF
Function	\rightarrow	4(MIMO2)	[™] N/A	N/A	Service Off ALarm Disable Enable)dBm	N/A	N/A	N/A	OFF
	>			194MH)dBm	N/A	N/A	N/A	OFF
💄 User	\rightarrow			194MH)dBm	N/A	N/A	N/A	OFF
	>			90MH;	UL ATTN(dB))dBm	N/A	N/A	N/A	OFF
Notification	>	8(MIMO4)		90MH;)dBm	N/A	N/A	N/A	OFF
	\rightarrow	9(SISO5)	PCS	90MH;)dBm	N/A	N/A	N/A	OFF
Program	>	10(MIMO5)	PCS	90MH;)dBm	N/A	N/A	N/A	OFF
	>	11(SISO6)	¹⁰ N/A	N/A	DL ATIN(dB) 🕹)dBm	N/A	N/A	N/A	OFF
	>	12(MIMO6)	N/A	N/A)dBm	N/A	N/A	N/A	OFF
				N/A)dBm	N/A	N/A	N/A	OFF
	>			N/A)dBm	N/A	N/A	N/A	OFF
					Finish Cancel				© CORNING a	all right reserve

Figure 116. DCU RF Config-Batch

5.2.1.5 DCU TDD Config

SN	DCU TDD Config Parameters	Ranges	Default Values
1	UL/DL Slot Configuration	Pattern0:DDDSUDDSUU/Pattern 1:DDDSUUUUDD/Pattern 2: DDDSUUDDDD/Pattern 3: DDDDDDDSUU/Custom	DDDSUDDSUU
2	Special Sub Configuration	3:8:3/ 10:2:2/ 6:4:4/ Custom	10:2:2
3	Sub Carrier Spacing	15 kHz/30 kHz	30 kHz
4	User Set CF 1~8	(2496-2690) (3450-3700) (3700-3980) (862-894) (617-652) (2350-2360) (728-768) (1930-2020) (2110-2200) MHz	0
5	SSB Auto Search Switch	ON/OFF	OFF

UL/DL Slot Configuration: User-defined parameters are supported, but should be the same as the operator parameters.

- > To configure the TDD parameters
 - For each screen field above (UL/DL Slot Configuration, Special Sub Configuration, Sub Carrier Spacing, User Set CF 1~8, SSB Auto Search Switch), click to configure.
 - 2. For UL/DL Slot Configuration, Special Sub Configuration, Sub Carrier Spacing, click the arrow show



3. For User Set CF 1~8 and SSB Auto Search Switch, scroll the bar or click the arrow under **More** to fill in relevant values within the range according to the parameters above. Click Finish button



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Alarm Info OP Info			DCU Equij Equij Equij Firm Hard Site I	DCU ID 0 Equipment Mode Primary Equipment Model DCU-32 Equipment N 0722497019 Firmware Version 23.4.1.11_Everon_6000_DCU_P2 V01.00.03.83 Hardware Version 3 Site Info NA							
< Dashboard	Alarm I	nfo Info		OP Info	RF Config	TDD Config CPRI	Config				
💻 DCU	Batch										
III RIU	More	CH.	Band	TDD SYNC Status	TDD SYNC Switch	SSB Auto Search Switch	TDD SYNC CF	Working Module	UL/DL Slot Configuration	DL SSB P_in	Special Subframe Configura
Function	→	5/6	2500	•	-0N	OFF	UMHZ	N/A	-0005000500	-960BM	-10.2.2
💄 User											
Notification											
Program											



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Alam Info OP Info				DCU ID Equipment M Equipment M Equipment SI Firmware Ver Hardware Ver Site Info	0 ode Primary ddel DCU-G2 N 0722497019 sion 23.4.1.11_Eve sion 3 NA	ron_6000_DCU_P2.V01.00.03.	83				
< Dashboard	Alarm	Info R Info	OF	Pinfo RF C	onfig TDD Co	nfig CPRI Config					
DCU Batch											
III RIU	More	`CH.	Band	TDD SYNC Status	TDD SYNC Switch	SSB Auto Search Switch	TDD SYNC CF	Working Module	UL/DL Slot Configuration	DL SSB P_in	5
	~	5/6	2500	0	DON	OFF	0MHz	N/A	DDDSUDDSUU	-96dBm	
Function	1 6			Name		Value					
			Us	er Set CF2		EOMHz/0					
💄 User			Us	er Set CF3		E 0MHz/0					
			Us	er Set CF4		[™] 0MHz/0					
Notification			Us	er Set CF5		©0MHz/0					
			Us	er Set CF6		OMHZ/O					
Program			Us	er Set CF7		OMHZ/O					
	[05	ei Sel Oro		OWN220	J				
	4										+



5.2.1.6 CPRI Config

SN	CPRI Congfig	Ranges	Default Values
1	Band	700/2500/EAWS/PCS/HighC/LowC/WCS	/
2	CPRI BW	100MHz/200MHz/300MHz	/

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		DCU ID Equipment Mode Equipment Mode Equipment SN Firmware Version Hardware Version Site Info	35 Secondary DCU-52 MDCU052901 23.4.1.11_Everon_6000_DC 2 NA	CU_P2.V01.00.03.83	•		
< Dashboard	Alarm Info OPA/B	OP Info RF Config	TDD Config	CPRI Config			
DCU	Carrier Num: 8/14 C	300MHz: 1/2 200MHz: 1/2 ccupied BW: 1000 MHz	100MHz: 4/6 5/	0MHz: 2/4 25MHz:	0/4		
III RIU	CPRI1/2:				Residual BW: 0 MHz		
Function	Export Import	Delete All Add					
💄 User	✓ NO. ♥	✓ Band 🗘	CPRI BW	DCU	🗧 🗹 🛛 MIMO	AxC 🗘	Actions
	1	12 EAWS	¹² 100MHz	¹² CH1/2	¹² MIMO1/2	160	Delete
Notification	2	PCS	[™] 100MHz	CH3/4	¹² MIMO1/2	192	Delete
	3	¹² HighC	2300MHz	[™] CH5/6	[™] MIMO1/2	0	Delete
	4	¹²⁶ 00	^{I2} 50MHz	¹² CH11/12	[™] MIMO1/2	288	Delete
	5	[™] ESMR+850	[™] 50MHz	¹² CH13/14	[™] MIMO1/2	304	Delete
	6	¹² 700	[™] 100MHz	¹² CH15/16	[™] MIMO1/2	224	Delete
	7	[⊠] LowC	[™] 100MHz	¹² CH7/8	[™] MIMO1/2	256	Delete
	8	¹² 2500	¹² 200MHz	¹² CH9/10	¹² MIMO1/2	96	Delete

Figure 119. DCU CPRI Config.

You can select OP1-8 to complement these configurations including export, import, delete all and add.

Click Add to add carrier. For the band, 2500 and PCS can be selected. For MIMO, MIMO 1/2 and MIMO 3/4 can be selected. Then click Save to complete the carrier adding configuration as shown below.

	000 SOLUTIONS						Q 55 🖪 admi
	Ad	d Carrier				×	
						_	
(D -jj-	Contraction of Longentineau Contra	Band	N/A \vee				_
	· Harrison and a second second	MIMO	MIMO1/2 V				
	Alarm Info					_	
	OPA/B						
			Save	Cancel			
	Carrier Num: 8/1						
	CPRI1/2	cupied BW: 1000 MHz			Residual	BW: 0 MHz	
	Export Import	Delete All Add					
	Export Import	Delete All Add]				
	Export Import	Delete All Add	CPRI BW	DCU (State	MIMO	AxC	Actions
	Export Import	Celete All Add	CPRI BW	CCU CCH1/2	MIMO ¹² MIMO1/2	AxC 160	Actions Delete
User Notification	Export Import	Band ¹² EAWS ¹² PCS	CPRI BW C100MHz 200MHz	CH1/2 CH1/2 CH1/2	MIMO MIMO1/2 MIMO1/2	AxC 160 192	Actions Delete Delete
 User Notification 	Export Import	Delete All Add Band CEAWS CS CS HighC	CPRI BW C100MHz 100MHz 200MHz	CH12 CH12 CH34 CH56	MIMO ¹² MIMO1/2 ¹² MIMO1/2 ¹² MIMO1/2	• AxC • • • • • • • • • • • • • • • • • • •	Actions Delete Delete Delete
Liser	Export Import	Delete All Add Band ⁶⁷ EANS ⁶⁷ PCS ⁶⁷ HgAC ⁶⁶ 600	CPRI BW ²⁷ 100MHz ²⁶ 100MHz ²⁶ 300MHz ²⁶ 300MHz	оси ¹⁰ сни2 ¹⁰ сна4 ¹⁰ сна56 ¹⁰ сна012	MIMO ^E MIMO 1/2 ^E MIMO 1/2 ^E MIMO 1/2 ^E MIMO 1/2	AxC 160 160 192 0 288	Actions Delete Delete Delete Delete
User Notification	Export Import	Celete All Add Band EAWS PCS Hight 6000 ESMR-050	CPRI BW CTOUNTL CONTLL CONT	Сси [©] Сни2 [©] Сн34 [©] Сн356 [©] Сн1576 [©] Сн1374	мимо ^В мимо1/2 ^В мимо1/2 ^В мимо1/2 ^В мимо1/2 ^В мимо1/2	AxC 160 192 0 288 304	Actions Delete Delete Delete Delete Delete
User Notification	Export Import NO. 1 2 3 4 5 6	Celete All Add Band CEANS CPCS CHighC CESMR4650 CESMR4650 CF200	CPRI BW © 10004-12 © 10004-12 © 10004-12 © 10004-12 © 10004-12 © 10004-12	DCU ¹⁰ CH12 ¹⁰ CH34 ¹⁰ CH56 ¹⁰ CH1512 ¹⁰ CH1514 ¹⁰ CH1516	MIMO ¹² MIMO1/2 ¹² MIMO1/2 ¹² MIMO1/2 ¹² MIMO1/2 ¹² MIMO1/2 ¹² MIMO1/2	AxC 160 160 192 0 288 304 224	Actions Delete Delete Delete Delete Delete Delete Delete

Figure 120. DCU CPRI Config Add Carrier

5.2.2 DCU -> RIU

Click DCU \rightarrow RIU to query and set the information of the RIU connected to the DCU unit.

CORNING EVERON™ 600	0 SOLUTI	ONS						🔍 💱 🗷 admi	n▼
In LEEK	<u>fan</u>	ŋ	DC RIL	U ID 0 J Number 1					
< Dashboard	Overview Batch		RIU 1						î
DCU	More	RIU ID	Band	Combiner Mode	Site Info.	Temperature	Firmware Version	Equipment SN	RIL
	>	1	N3500A	[™] 4TO1	[™] UNKNOWN	38℃	23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	0722507043	G
III RIU	•								<u>→</u>
Function									
💄 User									
Notification									
Program									
				Figure	e 121.RIU ov	erview			
CORNING EVERON™ 600	00 SOLUTI	ONS						Q 👯 🖪 adn	nin -
	<u>fan</u>	Ţ.	DC	CU ID 0 U Number 1					
<	Overview	v	RIU 1						
< Dashboard	Overview Batch	v s	RIU 1						
< Dashboard	Overview Batch More	RIU ID	RIU 1 Band	Combiner Mode	Site Info.	Temperature	Firmware Version	Equipment SN	RIL
< Dashboard	Overview Batch More	RIU ID	RIU 1 Band N3500A	Combiner Mode	Site Info. ^문 UNKNOWN	Temperature 38°C	Firmware Version 23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	Equipment SN 0722507043	RIL
< Dashboard DCU RIU	Overview Batch More	RIU ID	RIU 1 Band N3500A Nam	Combiner Mode	Site Info. ¹² UNKNOWN Vi	Temperature 38°C	Firmware Version 23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	Equipment SN 0722507043	RIL
Dashboard DCU RIU Function	Overview Batch More	RIU ID	RIU 1 Band N3500A Nam RIU AI	Combiner Mode	Site Info. ¹² UNKNOWN 14 14 14 14 14 14 14 14 14 14 14 14 14	Temperature 38°C	Firmware Version 23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	Equipment SN 0722507043	RIL
< Dashboard DCU RIU Function	Overview Batch More	RIU ID	RIU 1 Band N3500A Nam RIU Ak Fan Ak	Combiner Mode 4TO1	Site info. ^C UNKNOWN Vi C C C C C C C C C C C C C C C C C C	Temperature 38°C	Firmware Version 23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	Equipment SN 0722507043	RIL Č
< Dashboard DCU RIU Function User	Overview Batch More	RIU ID	RIU 1 Band N3500A Nam RIU A: Fan A: Temperatur DC Voltage Lo	Combiner Mode	Site Info. ²² UNKNOWN 24 22 22 22 22 22 22 22 22 22 22 22 22	Temperature 38°C	Firmware Version 23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	Equipment SN 0722507043	RIL
< Dashboard DCU II RIU Function User	Overview Batch More	RIU ID 1 F	RIU 1 Band N3500A RIU Al: Fan Al: Temperatur DC Voltage Lc Firmware Misn	Combiner Mode data arm te Alarm wer Alarm hatch Alarm	Site Info. ^{CUNKNOWN} Vi C C C C C C	Temperature 38°C	Firmware Version 23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	Equipment SN 0722507043	RIL
< Dashboard DCU RIU Function User Notification	Overview Batch More	RIU ID 1	RIU 1 Band N3500A Nam RIU Ai Fan Ai Temperatur DC Voltage Lc irmware Misn Power Sharii	Combiner Mode defatorial arm arm arm arm arm arm arm arm arm arm	Site Info. ^{CUNKNOWN} V C C C C C C C C C C C C C C C C C C	Temperature 38°C	Firmware Version 23.4.1.11_Everon_6000_RIU_P2.V01.00.00.11	Equipment SN 0722507043	RIL

Figure 122. RIU overview More

5.2.3 DCU -> Function

Configure the max input according to specific needs.

5.2.3.1 Device Info

Click Function --Device Info to query the names and values of the device.

CORNING EVERON [™] 6000 SOLUTIONS						Q 21	🖪 admin+
	DCU ID Equipment Mode Equipment Model Equipment SN Firmware Version Hardware Version Site Info	0 Primary DCU-G2 0722497119 234.11.11_Everon_6000_DCU_P2 V01.00.03 3 NA	83				
Device Info Reset Device Info	Trigger Switch	Import & Export Firmware	Alarm Setting Ca	omm. Setting	Log	Certification	IP Setting
💻 DCU	Name		Value				
	Equipment Temperature		55°C				
III RIU	Power Temperature		30°C				
	DC Voltage		52.7V				
C Function	AC Input Voltage		222.5V				
	DC Power Consumption		122W				
.≜ User	AC Power Consumption		136W				
	Fan Speed		3300r/min				
A Notification	Uptime		00:04:59:38:00				
	Date/Time		¹² 2023-11-21 14:57:50				
	72H Reboot Time		≥02:00				
O Program	Equipment Mode		¹² Primary				
	System MAX Delay		Ons				
	Site ID		≥00000000				
	DCU ID		0				
	Site Info		¹⁵ NA				
	Longitude		^{IS} NA				
	Latitude		¹⁰ NA				

Figure 123. DCU Function Device Info

72H reboot time, site info, site ID, user model and device mode can be customized by users.

72H Reboot Time is set by the user which can be reset within 24 hours; Device Mode is used to set the work mode of DCU. (Note: when DCU is in master mode, it can be connected to DEU; when DCU is in slave mode, it cannot be connected to DEU and cannot work independently. It can only be connected to master DCU for normal use.)

5.2.3.2 Reset

Click Function--Reset to reset the software and hardware of DCU and clear the historical alarms.

CORNING EVERON™ 6000 SOLUTIONS						Q	Ç 🛤	admin -
	DCU ID Equipment Mode Equipment Model Equipment SN Firmware Version Hardware Version Site Info	0 Primary DCU-G2 0722497019 23.4.1.11_Everon_6000_DCU_P2.V 3 NA	/01.00.03.83					
Device Info Reset A Dashboard	Trigger Switch	Import & Export Firmware	Alarm Setting	Comm. Setting	Log	Certificat	ion	IP Setting
DCU	Item Restore Factory Settin	ıgs	Action Reset					
III RIU	Clear History Alarm DCU Hardware Reset		Clear Reset					
G Function	DCU Software Reset RIU1 Reset		Reset Reset					
💄 User								
S Notification								
Ø Program								



5.2.3.3 Trigger Switch

Trigger Switch includes Baseline Save, Baseline Clear and DCU Identify.

Baseline Save: It is to save the current topology based on customer requirements. If an NE is removed, a baseline Save alarm will be generated.

Baseline Clear: It is to clear the previous topology and update it to the current topology.

DCU Identity: If it is clicked, the red alarm indicator will blink for 10 seconds.

Click DCU->Function->Trigger Switch as shown in Figure 125.

CORNING EVERON™ 6000 SOLUTIONS								Q 🔀 🖪	admin -
		DCU ID Equipment Mode Equipment Model Equipment SN Firmware Version Hardware Version Site Info	0 Primary DCU-G2 0722497019 23.4.1.11_Everon_600 3 NA	00_DCU_P2.V0	1.00.03.83	[
< Dashboard	Device Info Reset	Trigger Switch	Import & Export	Firmware	Alarm Setting	Comm. Setting	Log	Certification	IP Setting
	Item				Action				
💻 DCU	BaseLine Save				Save				
	BaseLine Clear				Clear				
III RIU	DCU Identify				Test				
	RIU1 Identify				Test				
Ö Function									
💄 User									
Notification									
Program									

Figure 125. DCU->Function->Trigger Switch

Baseline supports topo display, and the operation steps are as follows:

1) Set switch

At DCU function ->trigger switch;

BaseLine Save: record the baseline function. Pay attention to the pop-up prompt that BaseLine Clear is required first, and then save the baseline after thirty seconds, as shown in Figure 126.

BaseLine Clear: clear the baseline record for thirty seconds, as shown in Figure 127;

2) The switch is displayed in the upper right corner of the topology, as shown in Figure 128.

(Compare with BaseLine) Click Enable, and the difference between baseline and existing networking will be displayed on the top. The difference is explained as follows:

- a) New unit: blue line;
- b) Change the adding unit: orange line;
- c) Delete additional units: fill with gray;