

CORNING

Everon 6200

A3-E3-N3 Specification Sheet



Features	
1200MHz Transmission Bandwidth over 1 fiber	8 x 3GPP Band per Remote
Sub 6GHz	Up to 200MHz IBW
Dry contact Alarm	25dBm Maximum Output Power per Band
Support Band or Channel Selective filter	Cascading up to 6 levels

### E62-A3 - Access Unit Chassis



The E62-A3 – Access Unit Chassis is a standard 19-inch 2U rack-mounted shelf (1U fan unit included), which serves as the host for Everon™ 6200. The E62-A3 provides coupling access to radio signal sources of multi-operator, multi-system, and multi-band, forming digital optical signals and distributing static capacity distribution to fiber-connected other type devices. One A3 supports up to eight optical interfaces connected to E3s (Expansion Unit) or N3RUs (Remote Unit).

**AU part is non-transmitting host unit**

### E62-AU-AC – Active Combiner Module



The E62-AU-AC – Active Combiner Module is the interface to the operator base station signal source equipment. Each module has four QMA ports for signal input from the maximum four operators. One Access Unit can be equipped with up to four modules. In accordance with wireless service provider standards, it is not advised to use digital repeaters as a signal source for Corning solutions.

#### E62-E3-O - Expansion Unit



The E62-E3-O – Expansion Unit is a standard 19-inch 1U rack-mounted shelf, which serves as the interface between the Primary A3 and the Remote Unit for the capacity expansion of system.

#### E62-N3RU – Low Power Remote Unit



The E62-N3RU is a low-power remote unit supporting cellular technologies on fiber optic cable using the CPRI protocol. The N3 is ideal for multi-operator multi-band, static capacity distribution deployments of cellular

services in small-to-medium coverage areas. The N3 supports two RF channels. The N3 converts an optical signal to RF and then transmits at the relevant 3GPP band and receives the analog RF signal, conditions it, and converts it back to optical for routing to the E3 or A3.

## Specifications

### E62-A3 - Access Unit Chassis

Supported Bands				
Band	3GPP Band	Downlink	Uplink	Max IBW
600MHz	71	617-652	663-698	35
700 LU	12 & 13	729-756	699-716 & 777-787	27
700MHz LUPS	12 & 13 & 14	728-768	698-716 & 776-798	40

Interface	
Access Unit RF Interface	QMA Female 8 x 25 Gbps SFP+ Interfaces
Optical Connector Type	6 to 8 optical connections to E3-O or N3 2 optical connections to Secondary A3s
Transmission Rate	25 GB/s
AU-AC modules	4 x AU-AC modules per chassis (RF interface with BTS) Full 3GPP Band per Module (up to 200 MHz)
Band Support	12x 3GPP bands over 1 fiber core (using 2 x Secondary A3)
Dry contact Alarms	1x RJ45 (2x in, 2x out)
Maintenance Interface	Ethernet RJ45
AU-AC power level (dB)	0dBm to +15 dBm Input Power Range for each port

Electrical	
Electromagnetic Compatibility/Interference (EMC/EMI)	3GPP TS38.113
Maximum Power Consumption	85W
AC Power	100-240v AC, 50/60Hz
DC Power	48VDC ± 20%

Environmental	
Mean Time Between Failure (MTBF)	> 220,000 hours
Operating Temperature	-10°C to +45°C
Storage Temperature	-40°C to +85°C
Humidity	0% to 90% (Noncondensing)
Cooling	Active
Installation	Wall or 19-in Rack
Ingress Protection Rating	IP30 (Indoor)

Mechanical	
AU (Width / Height / Depth / Weight)	440mm / 88mm / 329mm / 8.0kg 17.32in / 3.46in / 12.95in / 17.64lb

### E62-E3-O - Expansion Unit

Interface	
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Optical Connector Type	16 x 25 Gbps SFP+ Interfaces 14x optical connections to N3RU 1x optical connection to Primary A3 or upper level E3 1x optical connection to lower level E3
Transmission Rate	25 GB/s
Cascading	Up to 5 x E3-O per Optical connection
Dry contact Alarms	1x RJ45 (2x in, 2x out)
Maintenance Interface	Ethernet RJ45

### Electrical

Electromagnetic Compatibility/Interference (EMC/EMI)	3GPP TS38.113
Maximum Power Consumption	65 W
AC Power	100-240 VAC, 50/60 Hz
DC Power	48VDC ± 20%

### Environmental

Mean Time Between Failure (MTBF)	> 220,000 hours
Operating Temperature	-10°C to +45°C
Storage Temperature	-40°C to +85°C
Humidity	0% to 90% (Noncondensing)
Cooling	Passive
Installation	Wall or 19-in Rack
Ingress Protection Rating	IP30 (Indoor)

### Mechanical

E3-O (Width / Height / Depth / Weight)	440 mm / 44 mm / 220 mm / 6.0 kg 17.32 in / 1.73 in / 8.66 in / 13.23 lb
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## E62-N3RU – Low Power Remote Unit

### System

Maximum RF Bands per Access Unit	4
Maximum RF Bands per Remote Unit	8
Maximum RF Bands per System	12
Maximum Access Units per System	3 (1 x Primary / 2 x Secondary)
Maximum E3s per Primary A3	8
Maximum E3s cascaded	5
Maximum N3s cascaded	6
Frequency Range (Noncontiguous)	746MHz – 798 MHz
Bandwidth per Channel (Downlink & Uplink)	≤10 MHz (Contiguous)
Digital Bandwidth per Channel (Downlink & Uplink)	LTE: 5/10 MHz NR: 5/10 MHz
MIMO	2x2
System Delay Adjustment	Up to 50.00 μs

### Forward Path (Downlink)

Maximum Composite Output power	Downlink: 746-757 MHz / 758-768 MHz	15 dBm±2 dB
Output Power Accuracy	±2 dB	
Maximum Input Power	+15 dBm	

Ripple	4 dB peak to peak
Error Vector Magnitude	<3.5% @ 256 QAM
Manual Attenuation Control	30 dB @ 1 dB/step (A3:20 dB, N3RU:10 dB)
System Delay (1A3+1E3+1N3)	12 $\mu$ s

#### Reverse Path (Uplink)

Maximum Output Power per Channel	-15dBm @ f >2.5GHz; -17dBm @ 1.7GHz < f <2.3GHz; -23dBm @ f <1GHz
Output Power Accuracy	$\pm$ 2 dB
Maximum Input Power	-25dBm
Ripple	4 dB peak to peak
Manual Gain Control	30dB @ 1dB/step (A3:20dB, N3RU:10dB)
Noise Figure (1A3+1E3+1N3)	10dB @ Maximum Gain
IIP3	-10dBm

#### Interface

Antenna Interface (All bands)	QMA Female (External Antenna version)
Transmission Connector Type	2 x 25 Gbps SFP+ Interfaces 1x optical connection to Primary A3, upper level E3 or N3 1x optical connection to lower level N3
Transmission Rate	25 GB/s
Optical Fiber Length	10km
Cascading	Up to 5 x E3-O per Optical connection
Maintenance Interface	Ethernet RJ45

#### Electrical

Electromagnetic Compatibility/Interference (EMC/EMI)	3GPP TS38.113
Maximum Power Consumption	75 W
DC Power	48VDC $\pm$ 20%

#### Environmental

Mean Time Between Failure (MTBF)	> 220,000 hours
Operating Temperature	-10°C to +45°C
Storage Temperature	-40°C to +85°C
Humidity	0% to 90% (Noncondensing)
Cooling	Passive
Installation	Ceiling or Wall
Ingress Protection Rating	IP30 (Indoor)

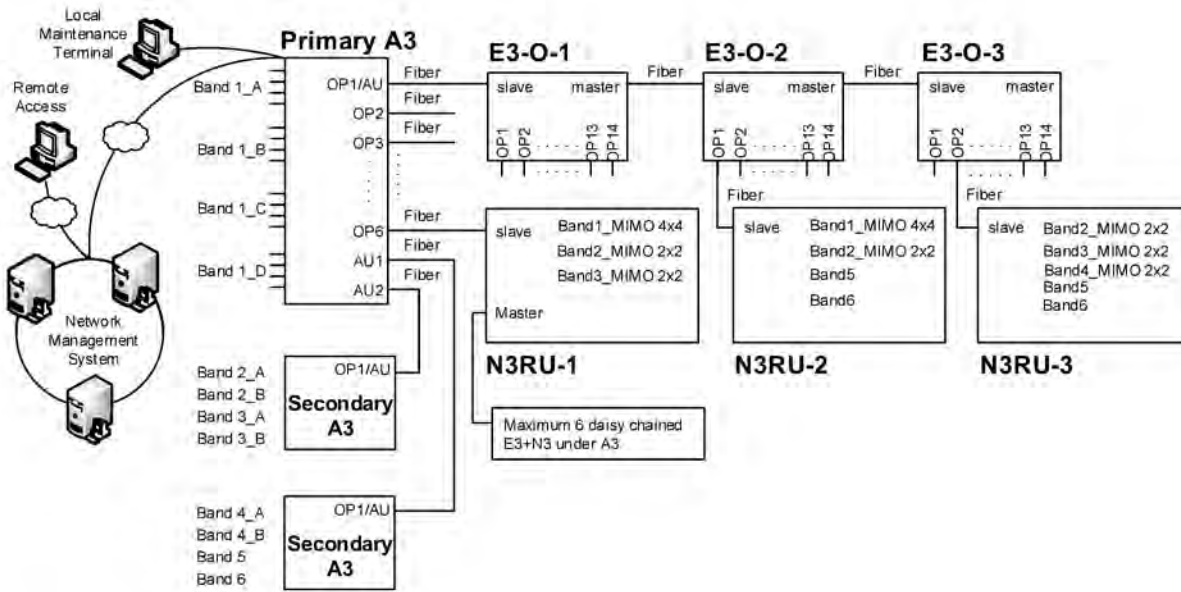
#### Mechanical

N3 (Width / Height / Depth / Weight)	310 mm / 83 mm / 310 mm / 4.5 kg
Integrated Antenna Version	12.20 in / 3.27 in / 12.20 in / 9.92lb
N3 (Width / Height / Depth / Weight)	310 mm / 83 mm / 310 mm / 4.5 kg
External Antenna Version	12.20 in / 3.27 in / 12.20 in / 9.92lb

#### Regulation

FCC, UL62368-1, UL 2043

# System Topology



Notice: The socket-outlet shall be easily accessible.

1 This is a class B signal booster

2 Part90 and Part 20 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 License to operate this device. You MUST register Part 90 Class B signal Boosters (as defined in 47 CFR 90.219) online at [www.fcc.gov/signal-boosters/](http://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.

3 use of unauthorized antennas, cables, and/or coupling devices not conforming with ERP/EIRP and/or indoor-only restrictions

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

## FCC Statement

Any 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

# INSTALLATION MANUAL

# N3

## **NANO POWER**

Octa Band Digital Radios  
Up to 25dBm per Band  
Up to 200MHz IBW  
5G NR Compliant  
Integrated Antennas



## General

The Everon 6200 system components are designed for maximum safety and reliability when they are installed, used, and maintained by trained and qualified technicians in accordance with the procedures and instructions contained in this manual. To ensure the safe operation of your system, always follow the safety and operational recommendations in this manual.

### Warnings

- Everon 6200 is not a consumer product. Please install and use Everon 6200 in accordance with the instructions.
- Before installing or modifying any Everon 6200 equipment, read and fully understand the entire instructions in this guide.
- Only qualified personnel are authorized to install and maintain the Everon 6200 system.
- Changes or modifications to the Everon 6200 equipment not expressly approved by the manufacturer could void the product warranty and the user's authority to operate the equipment.
- Follow Electro Static Discharge precautions to avoid any damage to PCB, PSU, etc.
- Keep equipment powered-off during installing or modifying.
- Low path loss cables connected to antennas are highly recommended.

### Site Considerations

- Everon 6200 complies with FCC RF exposure limits for an uncontrolled environment.
- The system delay should be taken into consideration when there are neighboring BTS sites with overlapping in coverage.
- Pick an ideal easy-to-reach location for installation convenience.
- Verify that there is a minimum of a 50cm radius of space around Everon 6200 equipment for the convenience of maintenance and on-site inspection.
- Install Primary A3 close to the service area for monitor and debugging.

### Environmental

Humidity and temperature have adverse effects on the reliability of the Everon 6200 system. Therefore, it is highly recommended to install the equipment in locations with stable humidity, temperature, and ventilating.

The equipment has to operate within the following humidity level and temperature range:

Maximum humidity: 85%

Temperature range: -10 to 45°C

## Preparation

### Unpacking and Inspection

Unpack and inspect the packages as follows:

1. Open the shipping packages carefully for each unit from the protective packing sponge.
2. Ensure that all equipment and accessories have been delivered.
3. Ensure that all equipment and accessories have no damage. If there is any damage, contact your service agent.

### Tools

Electric drill, cross head screwdriver, side cutters, ladder, and other tools are needed for N3RU installation which is not offered from Corning for now. Customers to provide these tools themselves.



Philips Screwdriver  
M6 and M3



Drilling Machine



Pen



Allen Wrench T5



Combination  
Spanner 17mm

### System Cabling

Here are the key features of Everon 6200 N3RU system cabling

- Primary A3 connects E3-O using single port bidirectional SFP module.
- E3-O connects N3RU using single port bidirectional SFP module.
- See Section Optical Transceiver Module for SFP module connection.
- N3RU is a DC power supply equipment.
- Hybrid cable is recommend for N3RU cabling.

### N3RU Power Supply

The N3RU needs a DC power supply at the remote unit location. It can use power supply unit (PSU) to realize this DC power supply.

Here are some specification for designing DC power cable for use with the 56V PSU:

$P_n = 80W$	Power consumption of N3RU	$P = I * V_{in} = 113.74W$	Power required from PSU
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$V_{in} = 56V$	Voltage of N3 PSU	$R_w = (V_{in} - V_{out}) / I = 8.46$	$R_w$ = resistance of the wire
$V_{out} = 48 * (1 - 20\%) = 38.4V$	Minimum input voltage of N3RU	$R_w = R_d * D$	D = distance of the wire (total length of supply + return cable)
$I = P_n / V_{out} = 2.08A$	I = Injected current		$R_d$ = resistance per meter of the wire

Cable type	Voltage Drop	D=Rw/Rd (meter)	Max Fiber Distance (meter)
	ohms/meter	2x distance between PSU and N3RU (there and back)	Distance between PSU and N3RU
12 AWG	0.00541	1562	781
14 AWG	0.00879	961	481
16 AWG	0.0147	575	287

#### Class 2 Installation for North America area (maximum input power is 100W):

$P_n = 80W$	Power consumption of N3RU	$P_w = 20W$	If N3 consumes 80W then 20W is dissipated in the wire ( $P_w$ )
$P_{in} = V_{in} * I_{in} = 100W$	$P_{in} = 100W$ max for class 2 installation	$R_w = P_w / I_w^2 = 6.27$	$R_w$ = resistance of the wire
$V_{in} = 56V$	Voltage of N3 PSU	$R_w = R_d * D$	D = distance of the wire (total length of supply + return cable)
$I_{in} = P_{in} / V_{in} = 1.786$	$I_{in}$ = Max injected current to not exceed 100W		$R_d$ = resistance per meter of the wire

Cable type	Voltage Drop	D=Rw/Rd (meter)	Max Fiber Distance (meter)
	ohms/meter	2x distance between PSU and N3RU (there and back)	Distance between PSU and N3RU
12 AWG	0.00541	1159	580
14 AWG	0.00879	714	357
16 AWG	0.0147	427	213


## Optical Transceiver Module

### Single Port Bidirectional SFP Transceiver

The Figure below shows a pair of single port Bidirectional SFP transceivers. For devices optical connection, the transceivers of two sides must be paired - the wavelength of one side is 1270nm, and the wavelength of another side is 1330nm. Otherwise, it will fail the connection. All lower-level devices under this port won't be working in the system.

All the optical ports of all type devices have LED indicators pointing to each port, which represent the synchronization status of the optical link. The indicator turns to green when optical modules are plugged in ports and synchronized. When the connection is down, the indicator remains red. If there is no optical module in port, the indicator is blank.

Optical Indicator	Description
Green	Normal
Red	The optical path is not synchronized.
Blank	Optical module is not plugged in

 The single port SFP modules have to be used in pairs.

## Installation of the A3



### A3 Accessories









Screw M6*16	Screw M3*6	
		
Suspension Loop-L(white mark 'L')	Suspension Loop-R(white mark 'R')	AC Power Lead
		
CAT-5 Cable 1.5m	CAT-5 Cable For Fan	Ground Wire
		

Figure 1. A3 Accessories

**Note:** the ground wire of A3 is 12AWG and 2 meter in Accessories package.



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### A3 Rack Installation

The Access Unit is a 19" 1U equipment shelf. When installing the Access Unit in a rack, make sure the mechanical loading of the rack is even to avoid a hazardous condition. The rack should safely support the combined weight of all the equipment and be securely anchored. Installing the Access Unit in a climate-controlled room with sufficient air circulation is recommended as the maximum ambient temperature is +45°C.

To install the Access Unit in the equipment rack.

1. Attach the 19" mounting brackets at the front of the A3, using 4 screws M3×6 per bracket and the Phillips screwdriver. Observe the orientation of the brackets. Suspension Loop-L installed on the left side of the A3, Suspension Loop-R installed on the RIGHT side of the A3.

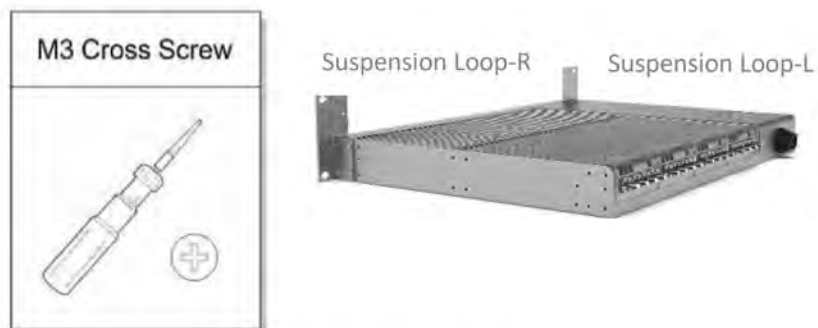


Figure 2. Attach Mounting Brackets

2. Install and connect the fan via CAT-5 cable.



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Figure 3. Connect Fan Cable

3. Recommended attaching the sliding rails to rack. (Not included in delivery).





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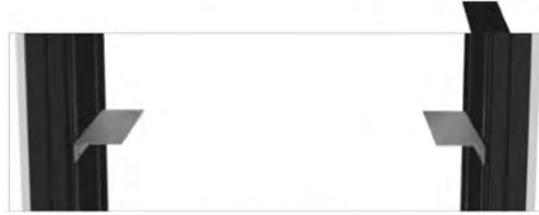


Figure 4. Sliding Rails

4. Place the A3 in the rack and secure the A3 using 4 screws M6×16 on both side and the Phillips screwdriver.



Figure 5. Place A3 in Rack





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Figure 6. Rack Installation

5. Connect and lock the power cable at the A3 rear side.
6. Connect and screw the ground wire at the A3 rear side.



Figure 7. Connect Power and Ground Cables



Figure 8. Installation Completed

### A3 Wall Installation

To install the Access Unit on the wall:

1. Rotate the handles 90° and attach them at the rear of the A3, using 8 screws M3×6 per bracket and the Phillips screwdriver. Observe the orientation of the brackets.



Figure 9. Attach Handles

2. Mark 4 x  $\varnothing 6.8\text{mm}$  drilling holes sites for the hanger to be attached to the wall.

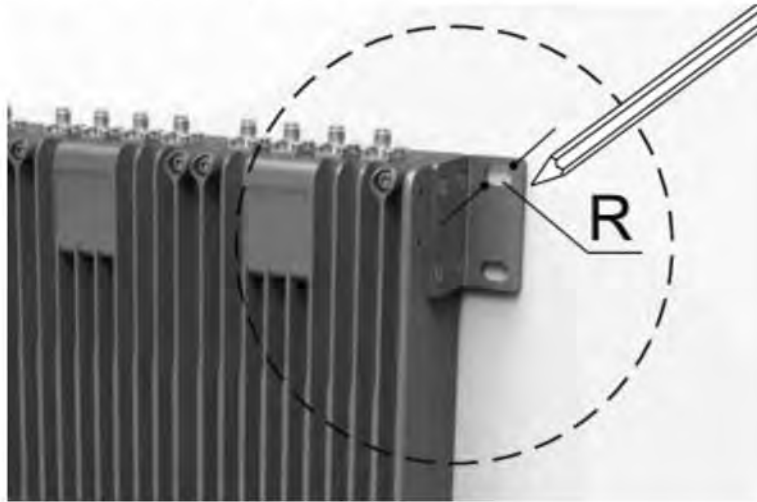
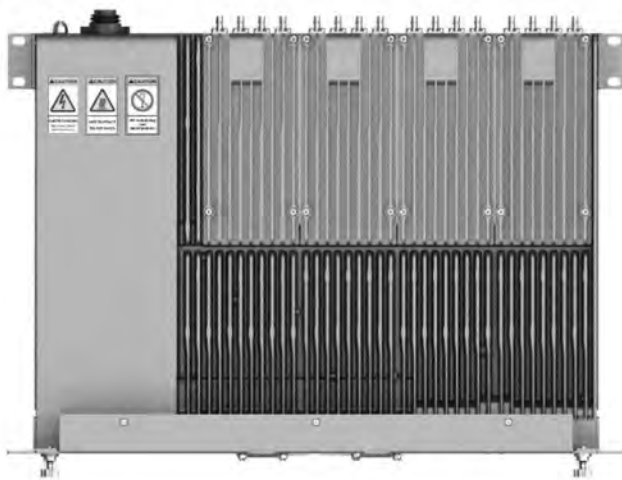
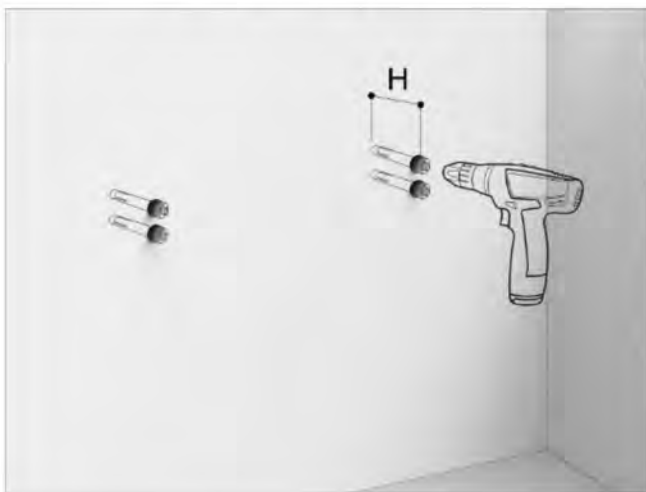


Figure 10. Mark Drilling Hole

3. Drill 4 holes at the marked sites using percussion drill and embed 4x $\varnothing 10$  plastic expansion pipes. Note: H=70mm.  
Fasten the case with 4xM6 expansion bolt.





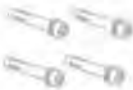
Pen	Drill	Expansion Bolt
		

Figure 11. A3 Wall Mounting

4. Connect and lock the power cable at the A3 rear side
5. Connect and screw the ground wire at the A3 rear side



Figure 12. Connect Power and Ground Cables



Figure 13. A3 Wall Mounting Completed



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Digital Radio

## A3 Wall Mounting Dimension Spacing

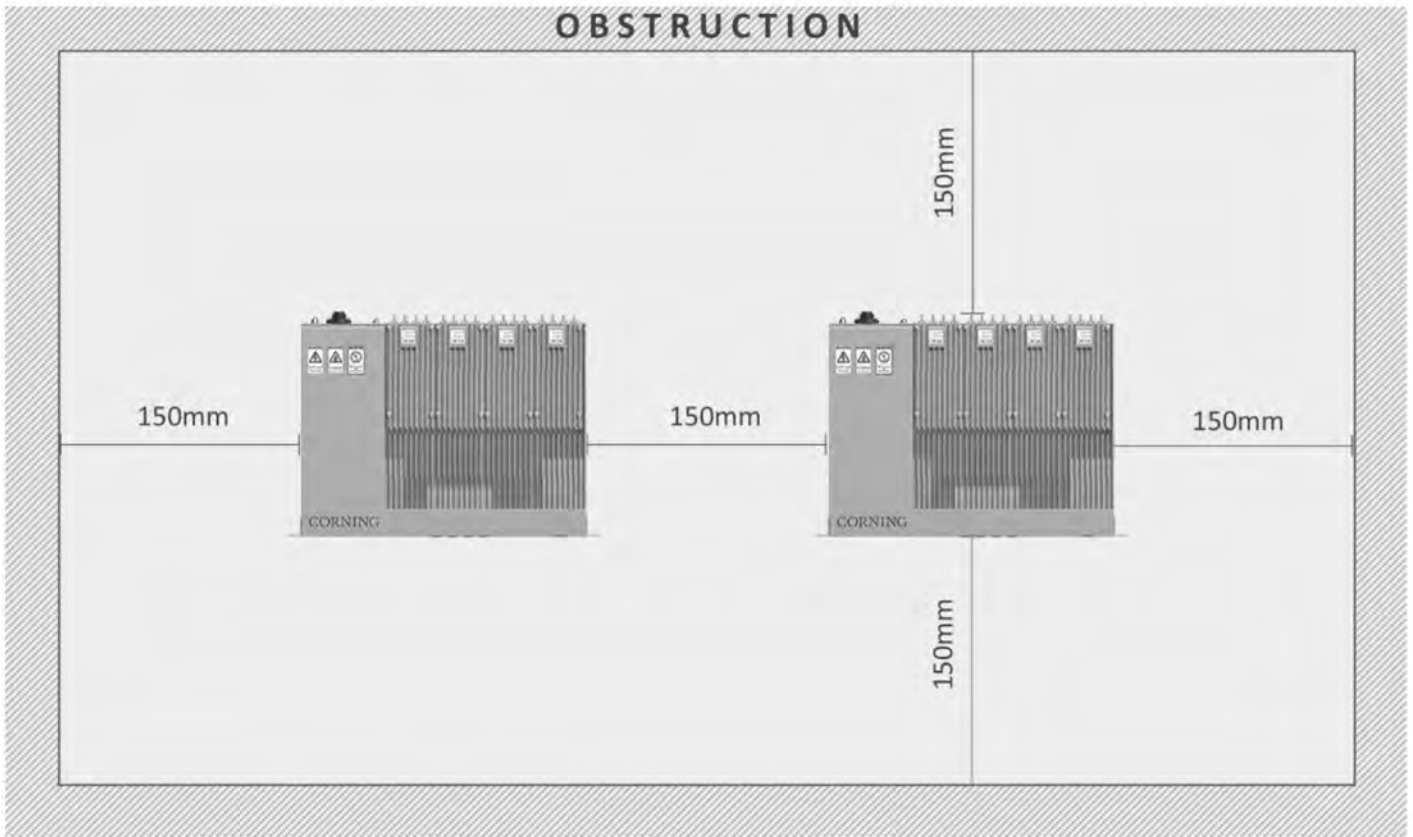


Figure 14. A3 Wall Mounting Dimension Spacing



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Octa Band  
Digital Radio

## Installing the Expansion Unit (E3-O)



### E3-O Accessories List

	Screw M6*16	Screw M3*6
		
Suspension Loo	AC Power Lead	
		
SFP28 modules	Ground Wire	
		

### E3 Rack Installation

The Expansion Unit is a 19" 1U equipment shelf. When installing the Access Unit in a rack, make sure the mechanical loading of the rack is even to avoid a hazardous condition. The rack should safely support the combined weight of all the equipment and be securely anchored. Installing the Expansion Unit in a climate-controlled room with sufficient air circulation is recommended as the maximum ambient temperature is +50°C.

To install the Expansion Unit in the equipment rack.

1. Attach the 19" mounting brackets at the front of the E3, using 4 screws M3×6 per bracket and the Phillips screwdriver. Observe the orientation of the brackets.

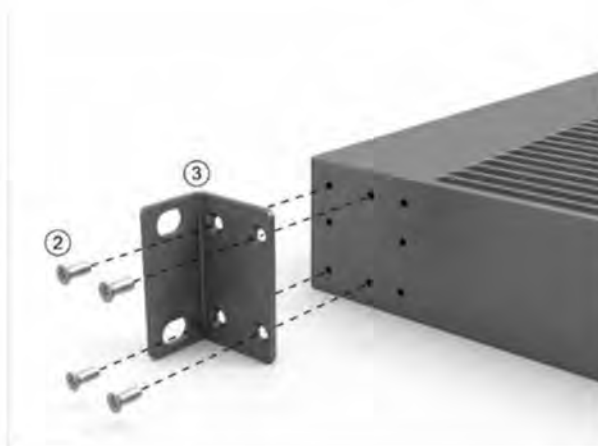


Figure 15. Attach Handles



2. Recommended attaching the sliding rails to rack. (Not included in delivery).



Figure 16. E3 Sliding Rails

3. Place the E3 in the rack and secure the E3 using 2 screws M6×16 on both side and the Phillips screwdriver.



Figure 17. Place E3 in Rack



Figure 18. E3 in Rack

4. Reserve enough free space or Install the fan for cooling if multiple devices are installed in the same rack.

**⚠** It is necessary to allow at least 2 rack unit (88mm) of free space below each unit for heat dissipation without fan installed or 1 rack unit (44mm) of free space below each unit with fan occupied in the middle. Otherwise, the device temperature may rise and affect the service life of the device.



Figure 19. E3 Rack Spacing

5. Connect and lock the power cable at the E3 rear side.
6. Connect and screw the ground wire at the E3 rear side.



Figure 20. Connect Power and Ground Cables



Figure 21. E3 Rack Mounting Completed

### E3 Wall Installation

To install the Expansion Unit on the wall:

1. Rotate the handles 90° and attach them at the rear of the E3, using 4 M3×6 screws per bracket and the Phillips screwdriver. Observe the orientation of the brackets.



Figure 22. Attach Handles



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2. Mark 4 x  $\varnothing 6.8\text{mm}$  drilling holes sites for the hanger to be attached to the wall

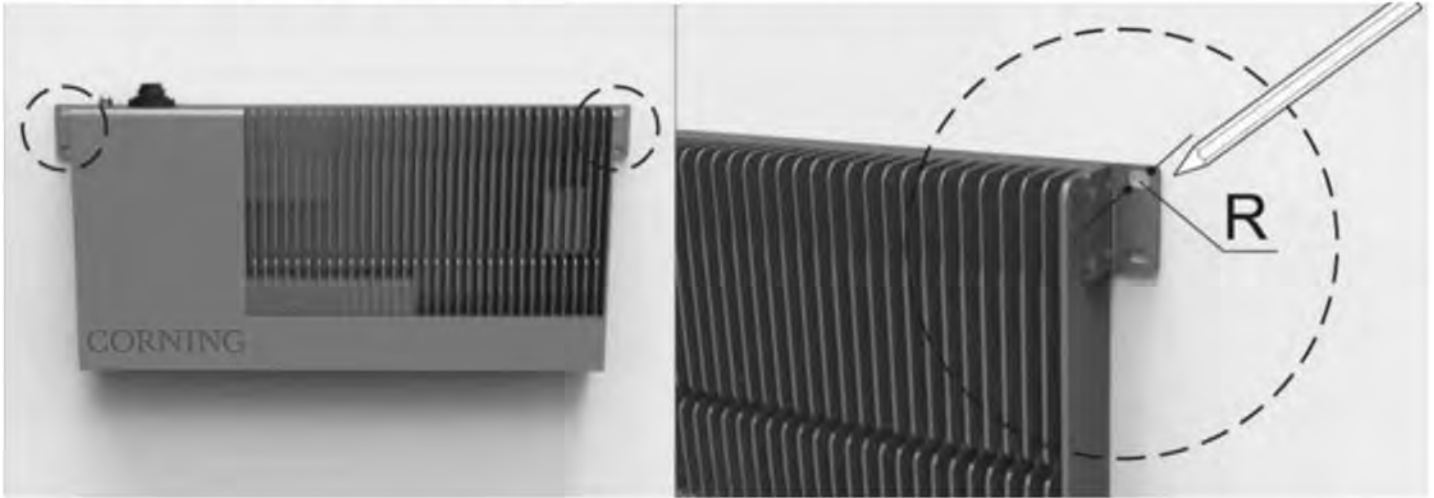


Figure 23. Mark Drilling Holes

3. Drill 4 holes at the marked sites using percussion drill and embed 4x $\varnothing 10$  plastic expansion pipes. Note: H=70mm.  
Fasten the case with 4xM6 expansion bolt.



Pen	Drill	Expansion Bolt

Figure 24. Drilling Holes

4. Connect and lock the power cable at the A3 rear side
5. Connect and screw the ground wire at the A3 rear side



Figure 25. Connect Power and Ground Cables

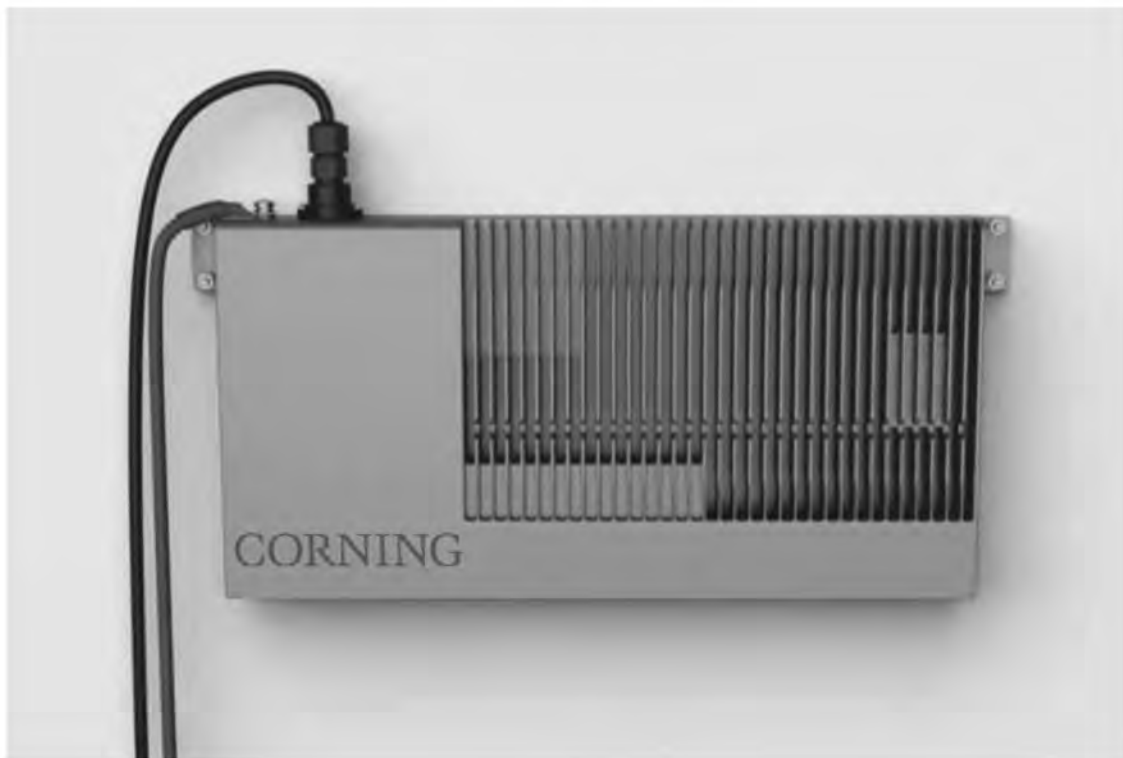


Figure 26. E3 Wall Mounting Completed



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## E3 Wall Mounting Dimension Spacing

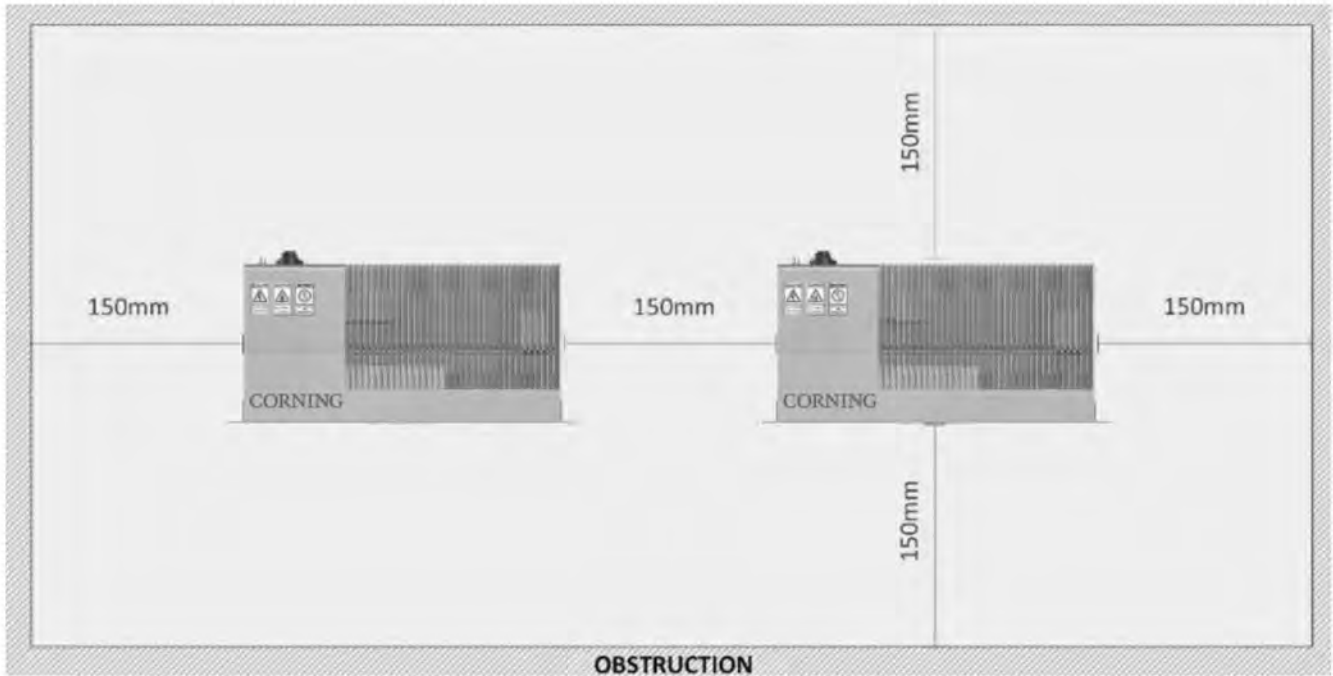














Figure 27. E3 Wall Mounting Dimension Spacing

## Installing the Remote Unit (N3RU)



### N3RU Accessories List

6 x Screw M3*6	2 x Mounting Bracket III	1 x SFP28 Modules
		
2 x Screw M6*70	2 x Flat washer M6	2 x Spring washer M6
		
4 x Plastic expansion nail	4 x Screw ST6.3*50	1 x DC Power Connector
		
1 x Mounting Bracket I	1 x Mounting Bracket II	1 x Nylon Cable Ties
		



### N3RU Wall Mounting Installation

1. Using the Mounting Bracket III keyholes as guides, mark the position of the 2 holes to be drilled into the wall.

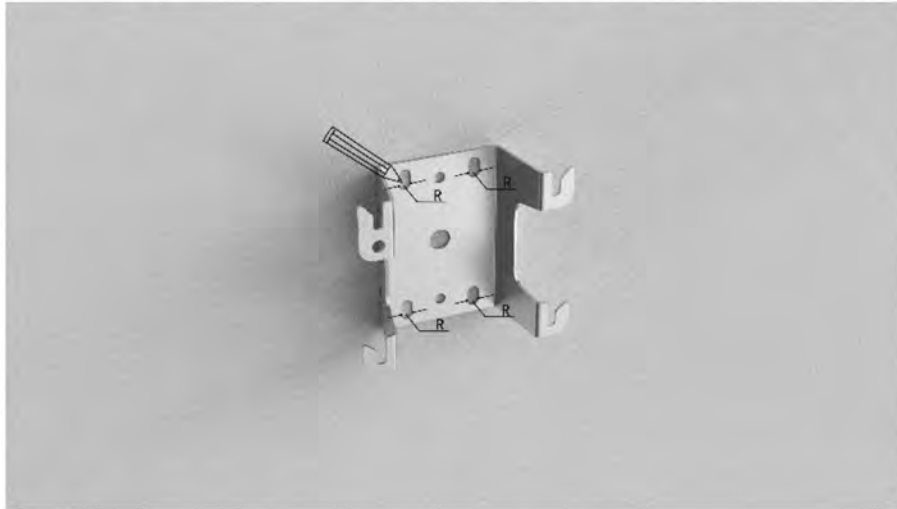


Figure 28. Drawing Circles Diagram 1

2. Drill 2 holes with diameter of 10mm and depth of 55mm at the position in step 1.

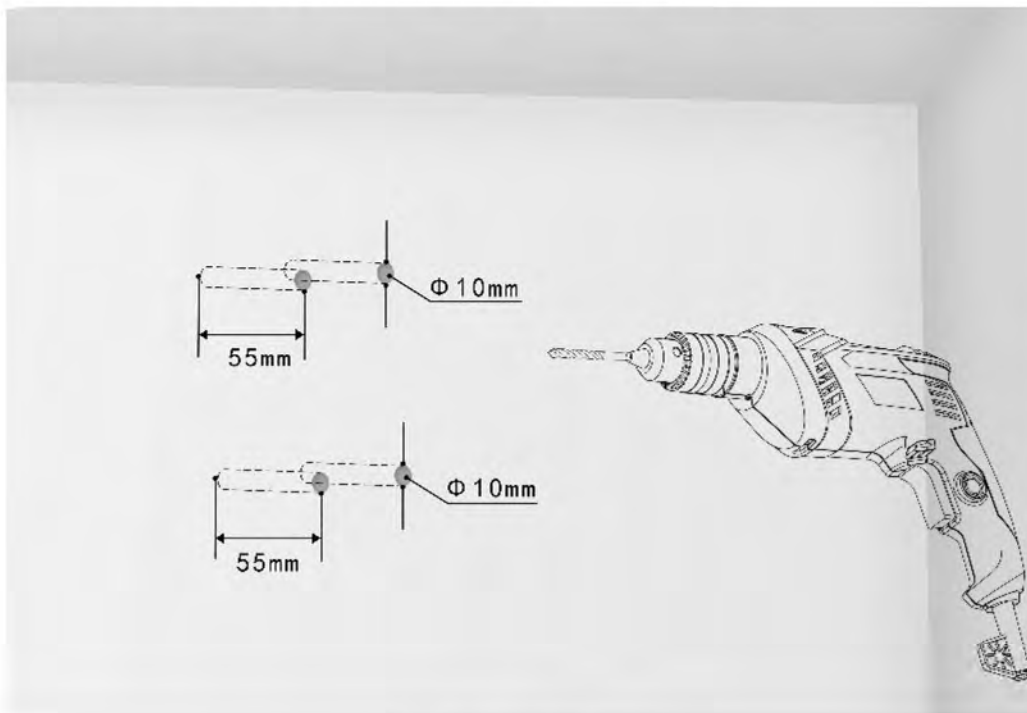


Figure 29. Drilling Holes Diagram 1

3. Insert plastic expansion nails into holes by hammer



Figure 30. Insert Plastic Expansion Nails

4. Assemble Mounting Bracket III to ceiling using ST6.3 X 50 screws.

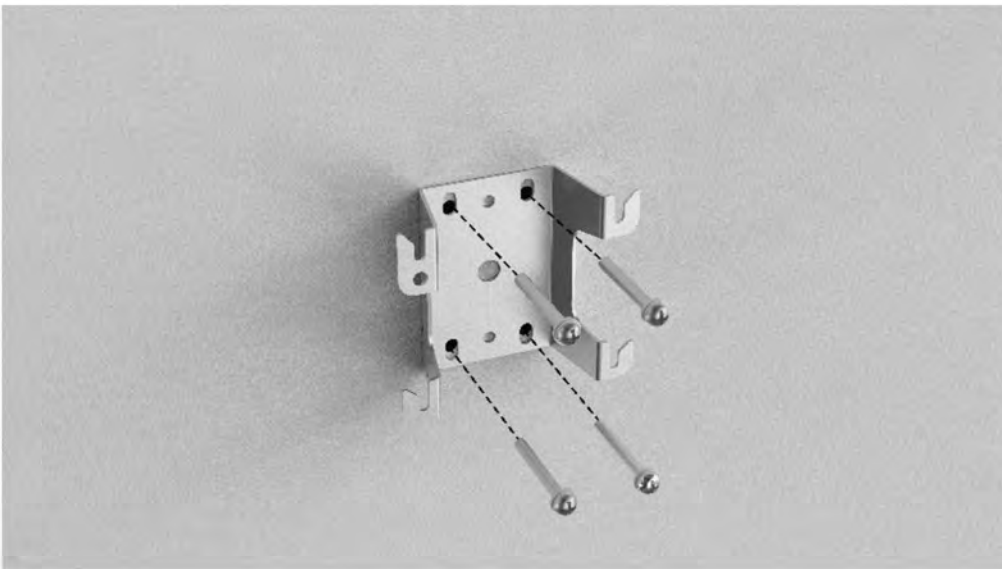


Figure 31. Assembling Bracket III Diagram 1

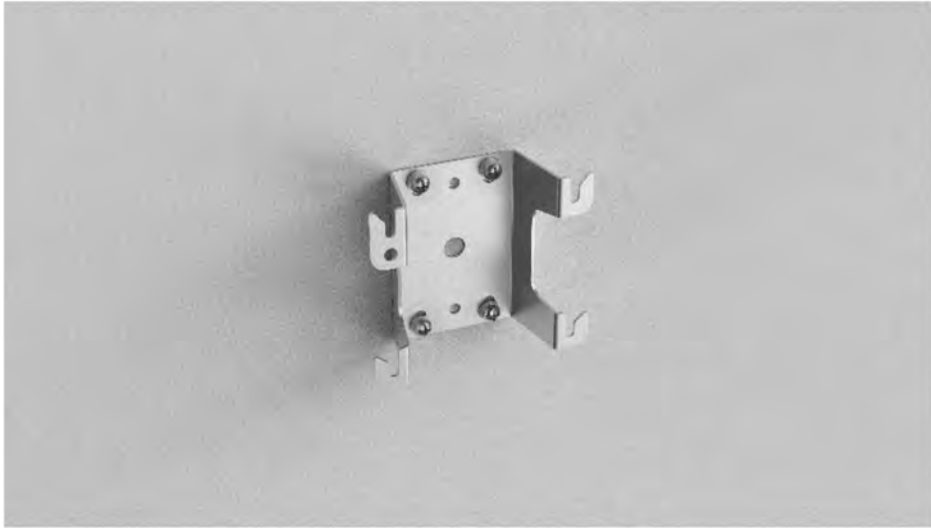


Figure 32. Assembling Bracket III Diagram 2

5. Connect power cable and fiber cable



Figure 33. Connect power cable and fiber cable

6. Place the N3RU up and buckle it into slots



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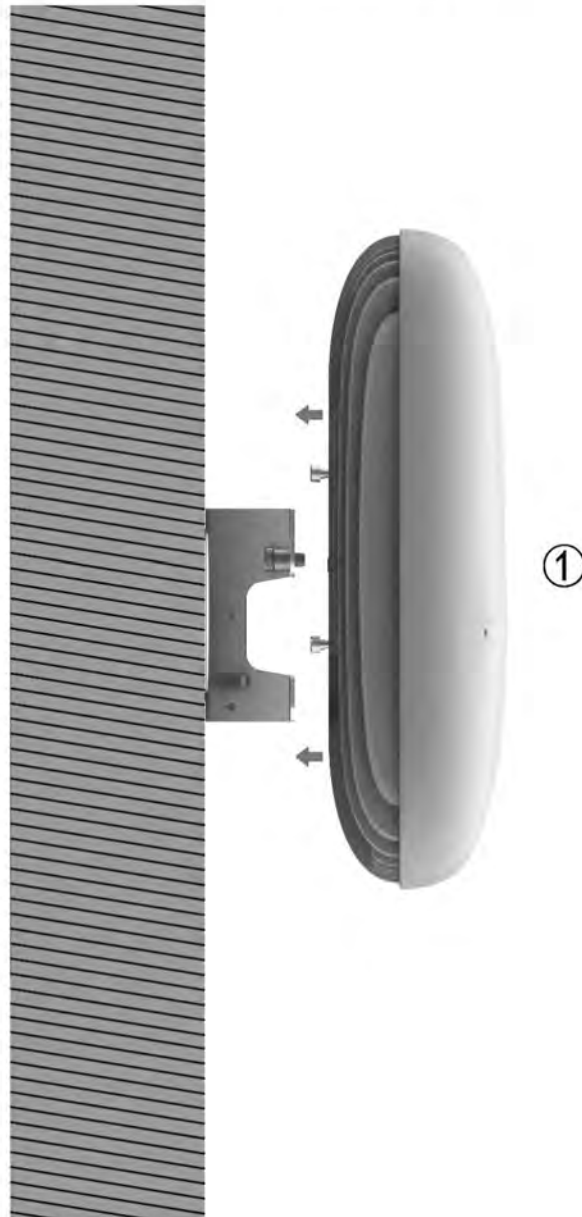


Figure 34. Place the N3RU up



Figure 35. Buckle N3RU to slots

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Figure 36. Installation Completed

**N3RU Ceiling Installation (without suspended ceiling)**

7. Using the Mounting Bracket III keyholes as guides, mark the position of the 2 holes to be drilled into the ceiling.

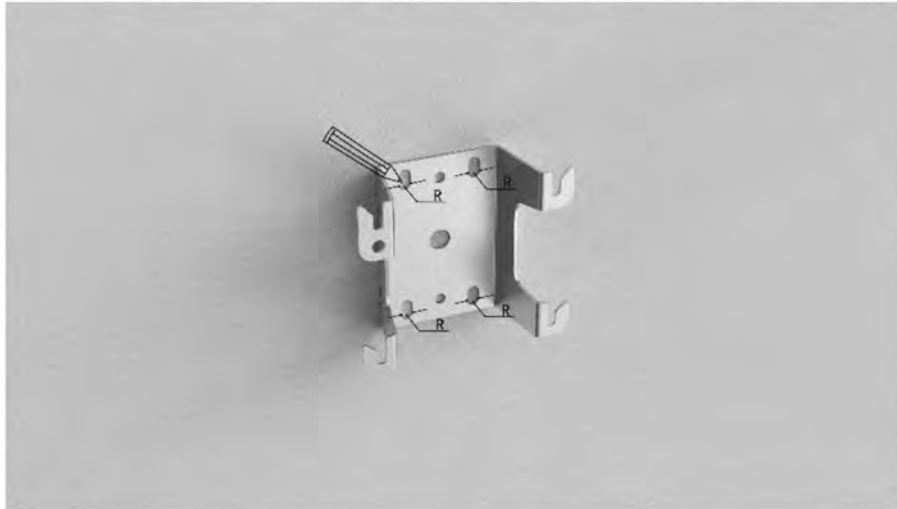


Figure 37. Drawing Circles Diagram 1

8. Drill 2 holes with diameter of 10mm and depth of 55mm at the position in step 1.

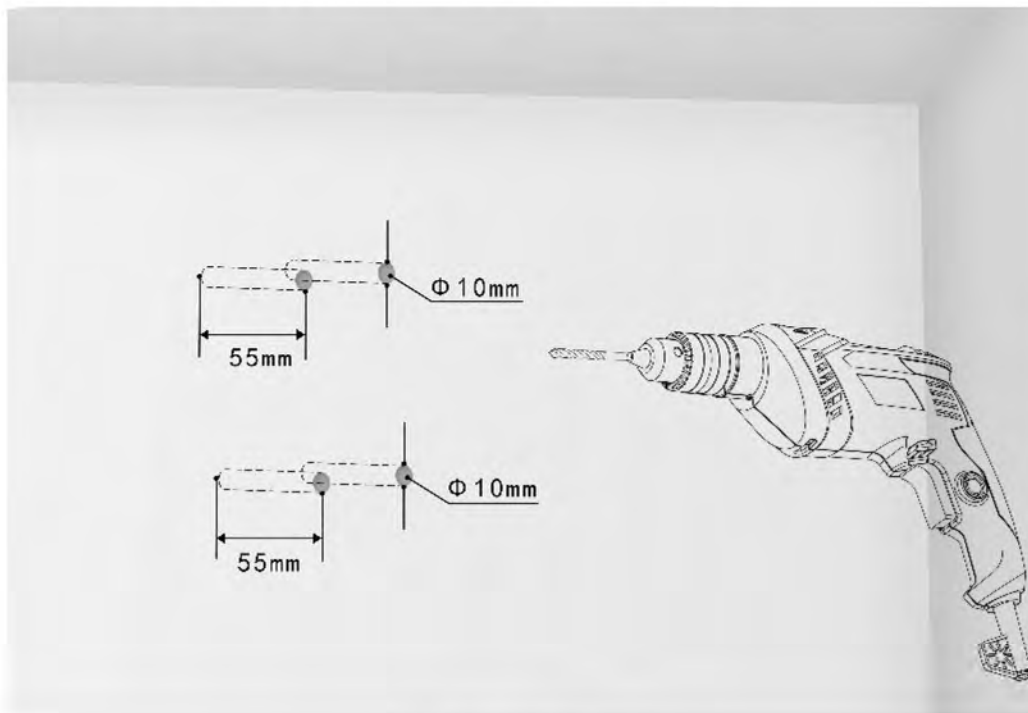


Figure 38. Drilling Holes Diagram 1

9. Insert plastic expansion nails into holes by hammer

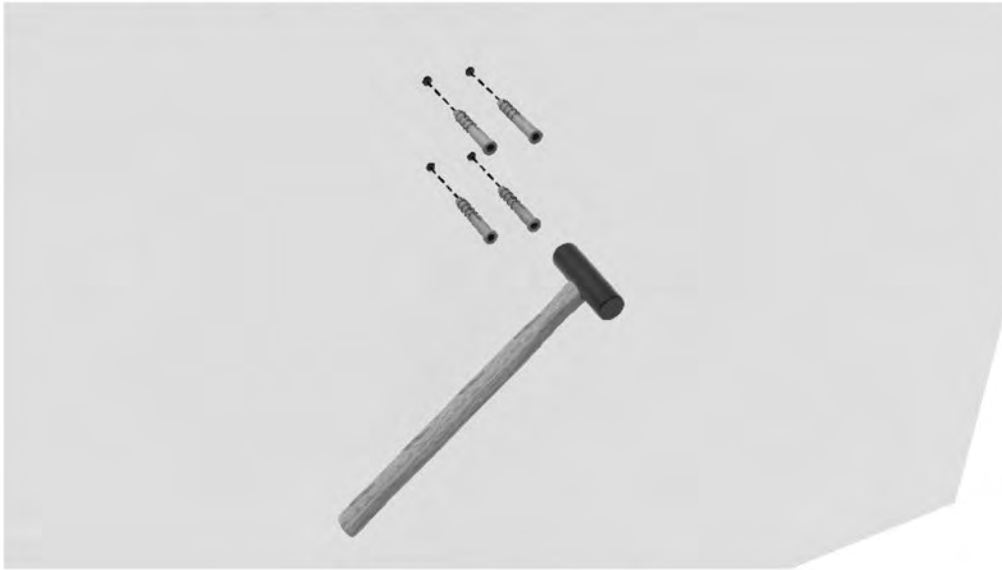


Figure 39. Insert Plastic Expansion Nails

10. Assemble Mounting Bracket III to ceiling using ST6.3 X 50 screws.

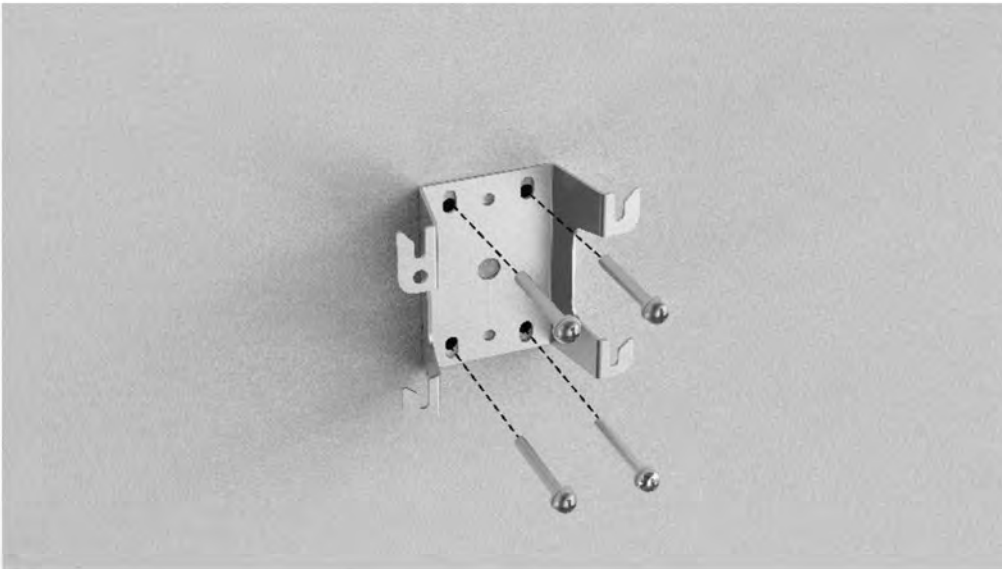


Figure 40. Assembling Bracket III Diagram 1



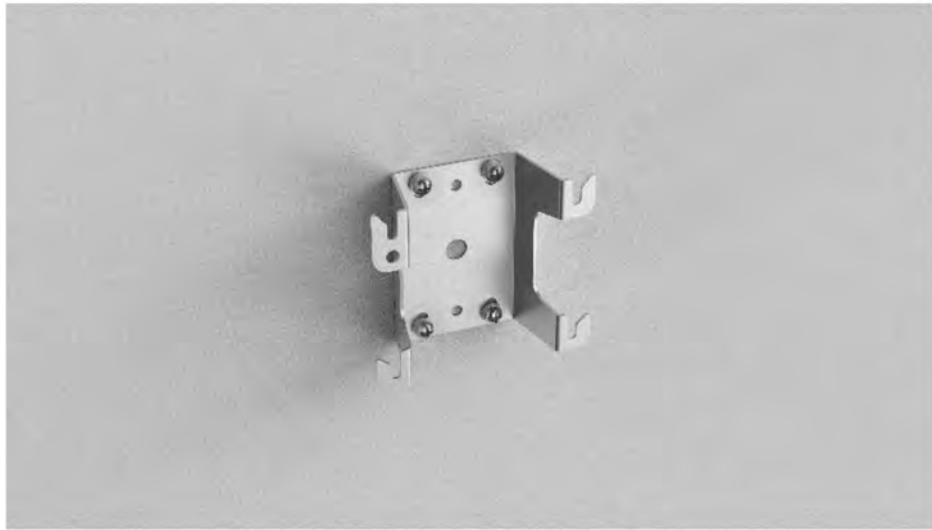


Figure 41. Assembling Bracket III Diagram 2

11. Connect power cable and fiber cable

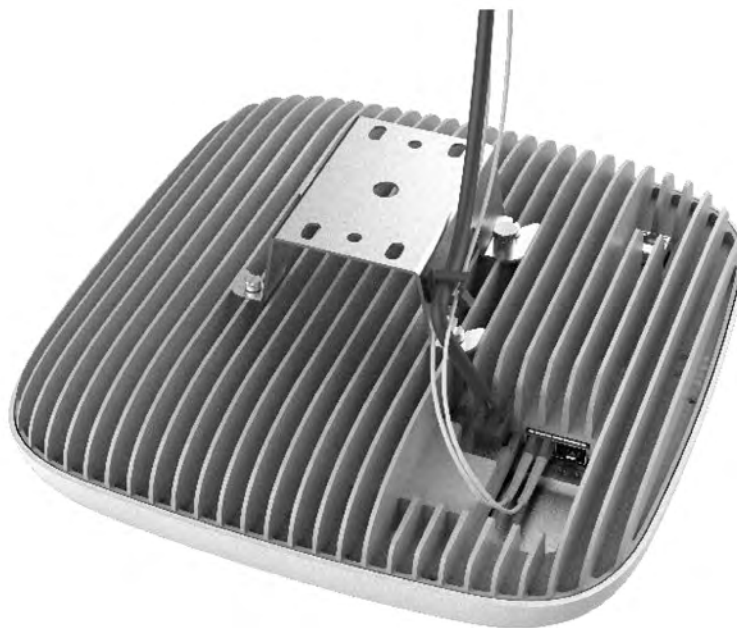


Figure 42. Connect power cable and fiber cable

12. Place the N3RU up and buckle it into slots

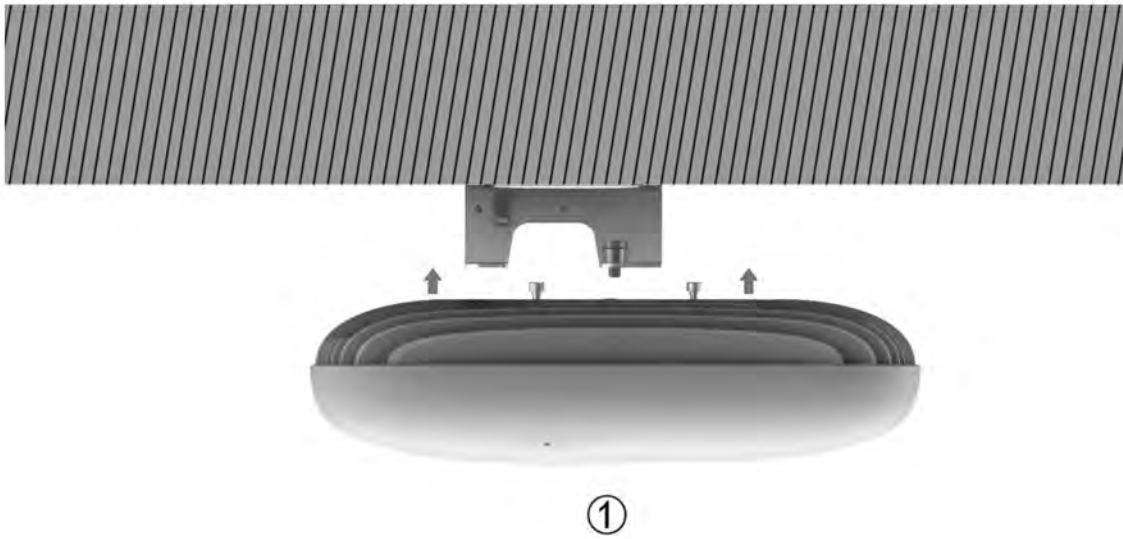
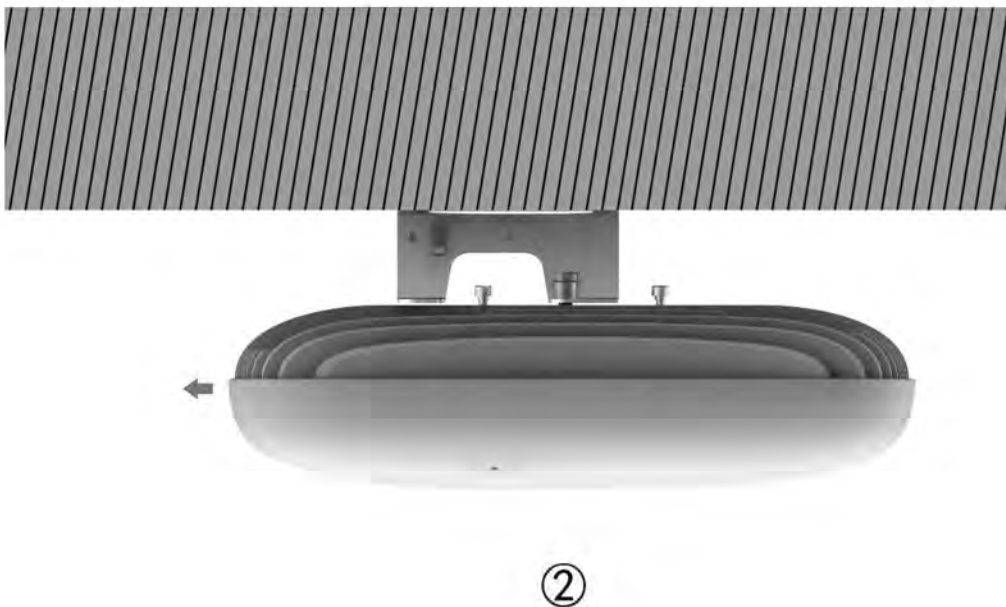


Figure 43. Place the N3RU up

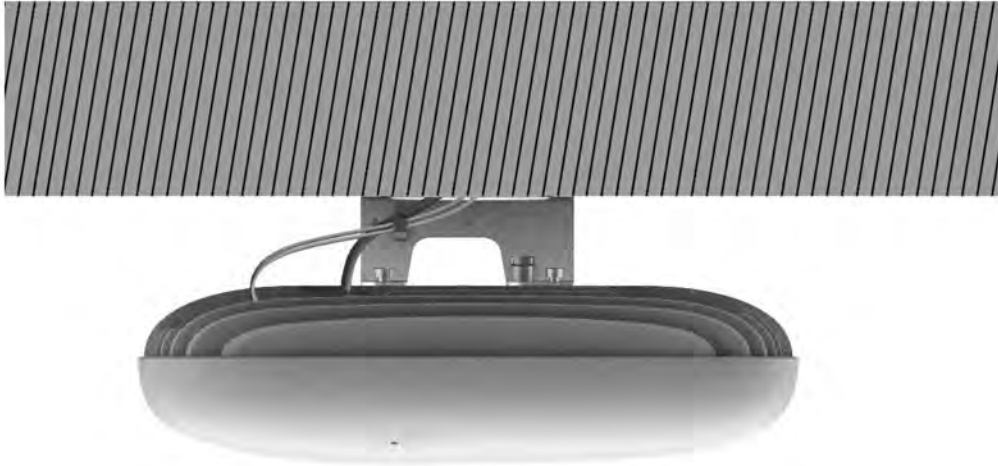




# NANO POWER

Up to 25dBm  
Octa Band  
Digital Radio

Figure 44. Buckle N3RU to slots



③

Figure 45. Installation Completed

**N3RU Ceiling Installation (with suspended ceiling)**

1. Assemble Mounting Bracket I & II with 6 \* M3 x 6 screws.

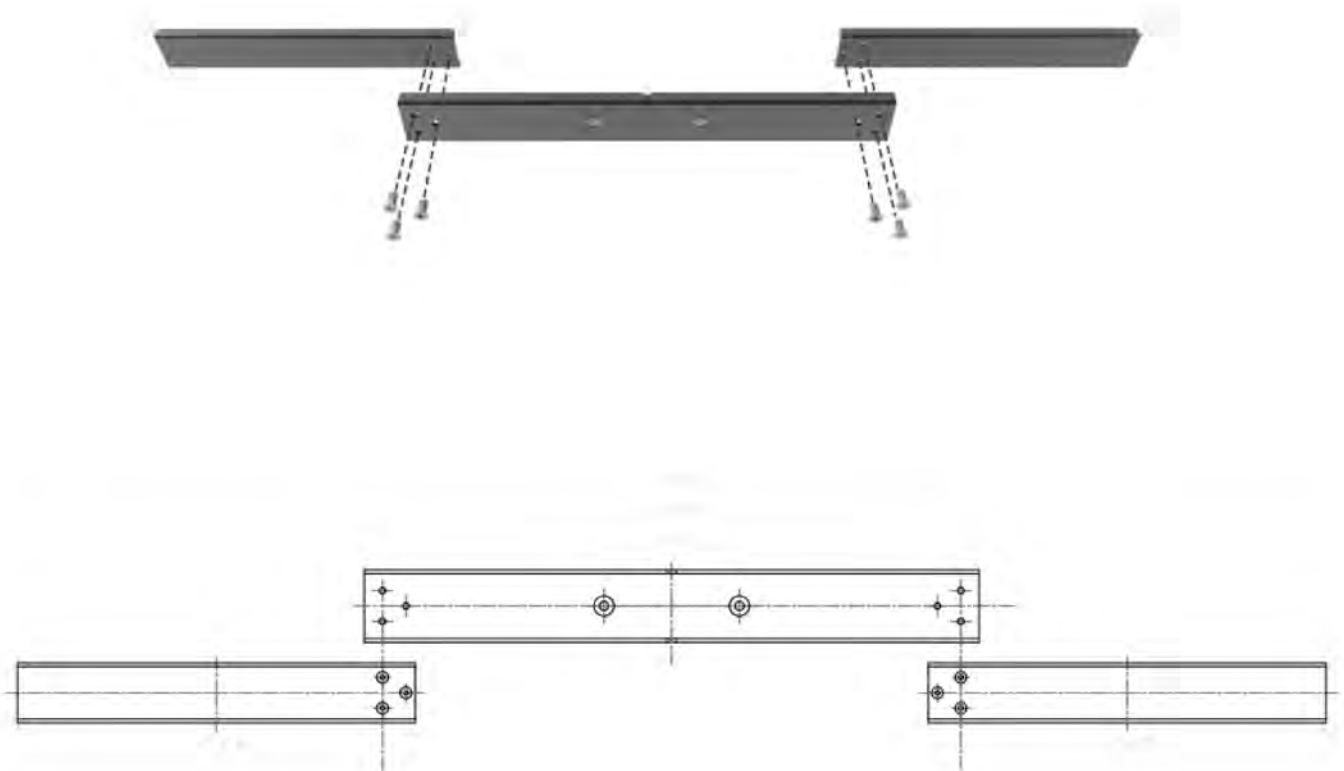


Figure 46. Assembling bracket I & bracket II

2. Lace Bracket I & II combo with Nylon Cable Tie for the position mark.



Figure 47. Lacing Mounting Bracket

3. Drill a hole with diameter of 90mm for putting Mounting Bracket I & II on ceiling upside.

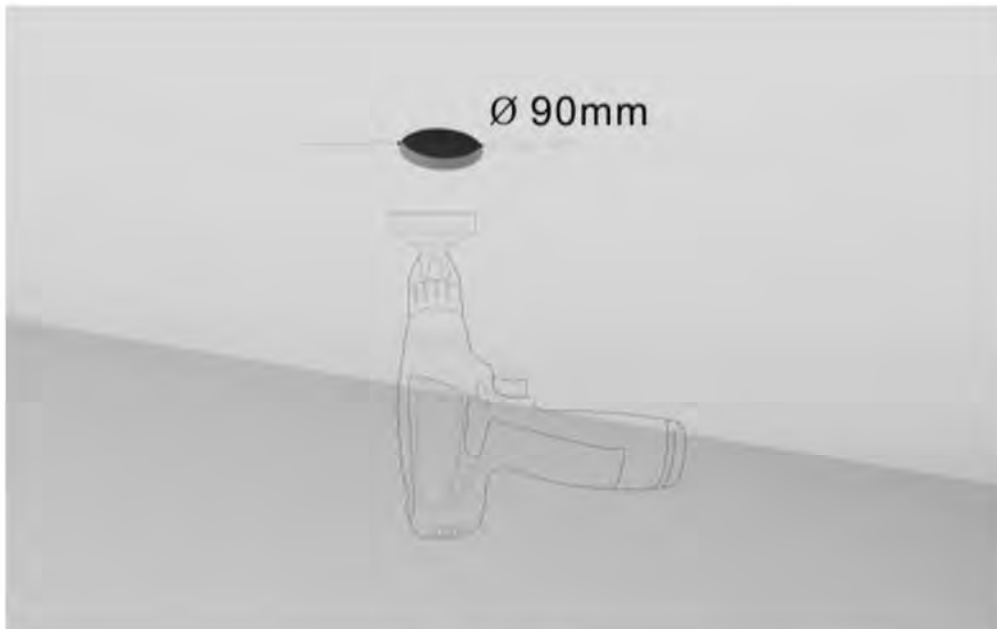


Figure 48. Drilling a Hole

4. Lay Mounting Bracket I & II at ceiling upside for immobilization of N3RU.



Figure 49. Placing bracket 1

5. Assemble N3RU Mounting Bracket III to Mounting Bracket I using 2 \* M6 X 70 screws, Flat Washer M6 and Spring Washer M6.



Figure 50. Assemble bracket II

6. Connect power cable and fiber cable



Figure 51. Connect power cable and fiber cable

7. Place the N3RU up and buckle it into slots

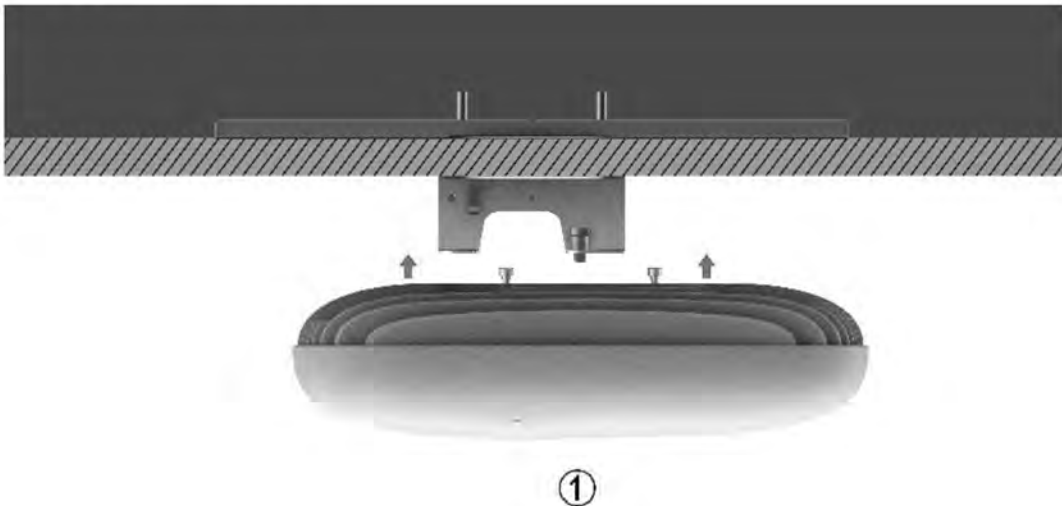


Figure 52. Place the N3RU up

CORNING

NANO POWER

Up to 25dBm  
Octa Band  
Digital Radio

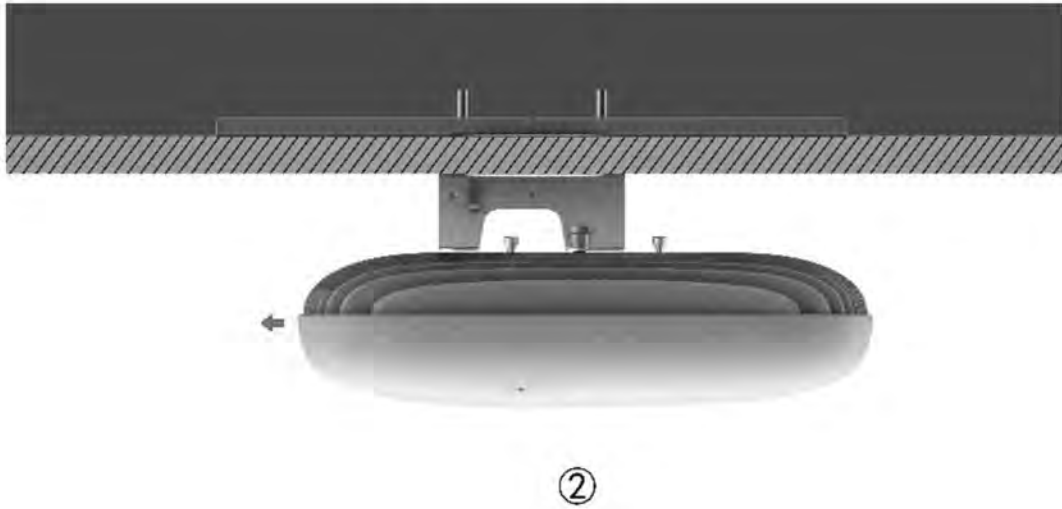


Figure 53. Buckle N3RU to Slots

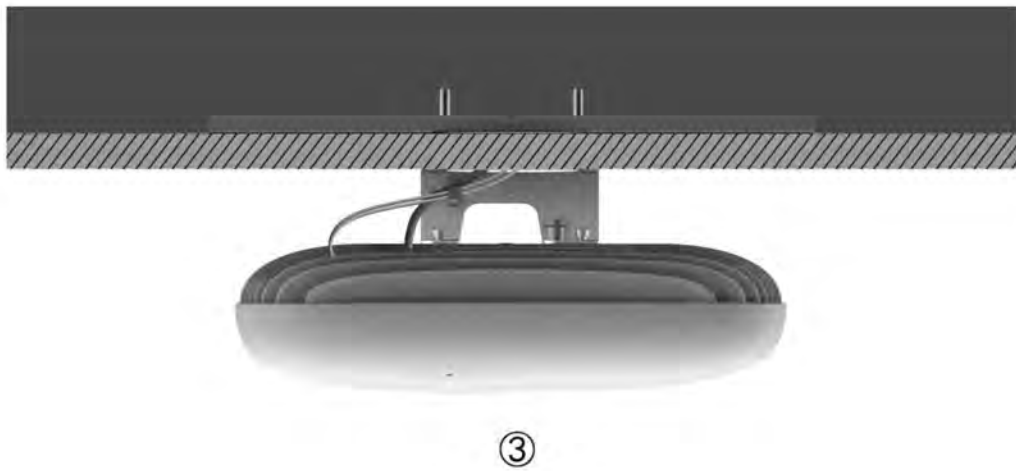


Figure 54. Installation Completed