

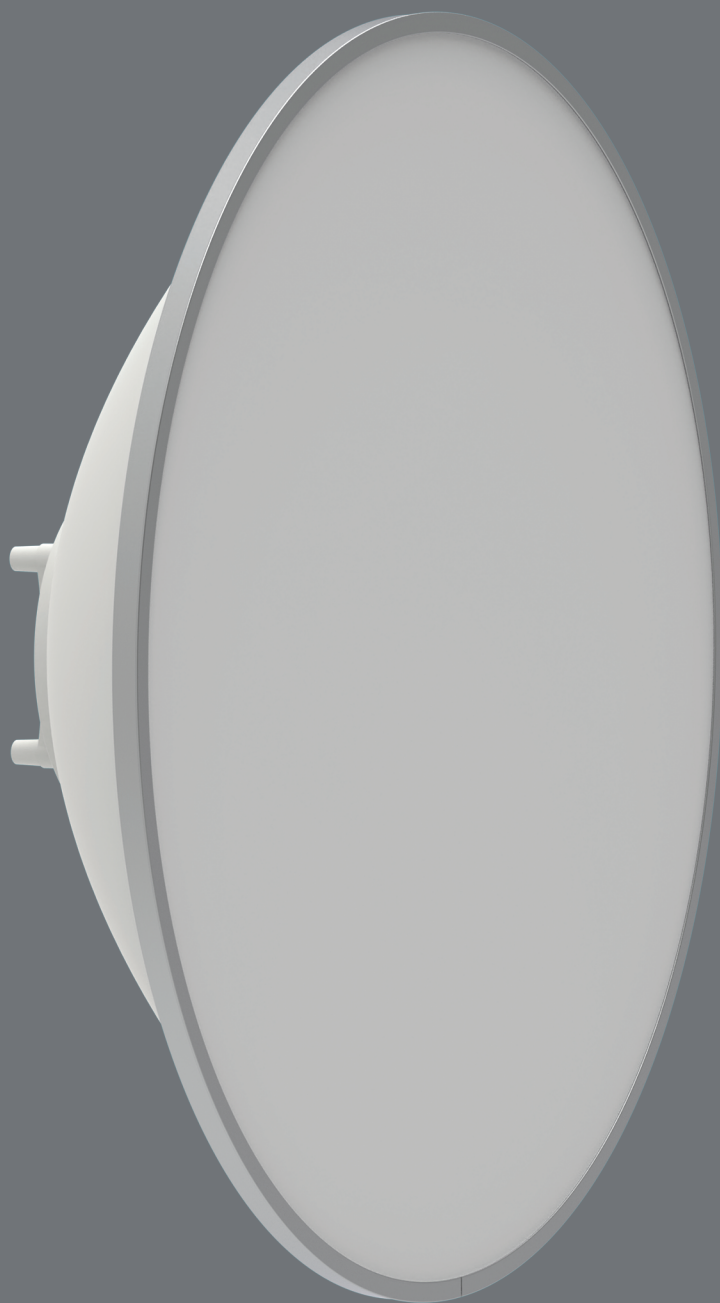


UHP

CATALOG

V 1.0.0

NUVEXEL UHP MICROWAVE ANTENNAS, DESIGNED AND MANUFACTURED BY FARAMOJSAZAN, ENSURE SUPERIOR RF EFFICIENCY AND STABILITY FOR BOTH ERICSSON AND HUAWEI ODUS. PRECISION-ENGINEERED ALUMINUM ALLOY CONSTRUCTION PROVIDES EXCELLENT VSWR PERFORMANCE AND RELIABLE OPERATION IN ALL ENVIRONMENTAL CONDITIONS.



NUVEXELs Solution for Huawei ODU's

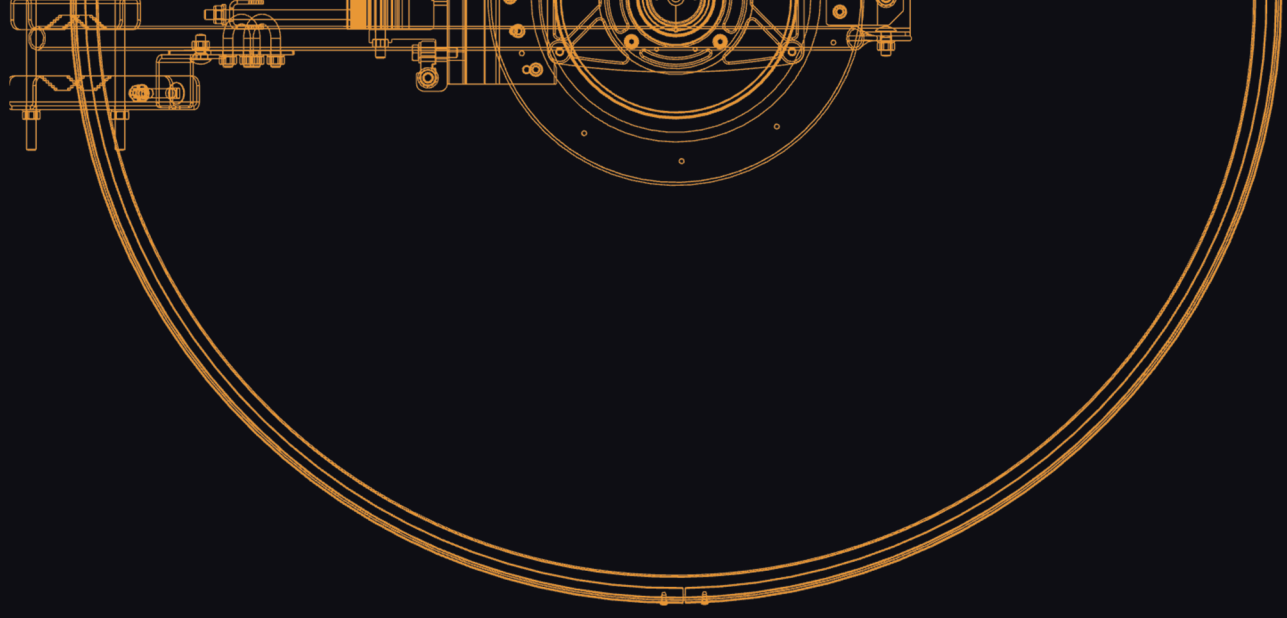


COMPANY OVERVIEW

Faramojsazan Ertebatat Parsian Company, with over a decade of experience in the telecommunications technology sector, is recognized as one of the leading knowledge-based companies. Established in 2012, the company relies on technical expertise and modern equipment to produce and distribute telecommunications antennas and radio equipment across UHF, VHF, HF, gigahertz, and microwave frequencies. Additionally, the company manufactures 5 GHz band radios under the RAYABOX brand and distributes renowned brands such as Mikrotik and Mimosa.

The company's products are manufactured within the frequency range of 60 MHz to 38 GHz and are offered in compliance with national and international standards. Holding operating licenses from the Ministry of Industry, Mine and Trade, as well as service distribution licenses from the Regulatory Authority for Radio Communications and other valid certifications, Faramojsazan has solidified its position in the telecommunications industry.

All products come with an 18-month warranty, and continuous after-sales service and technical support are guaranteed. The company's manufacturing facility is located in the Isfahan Industrial Park, with its headquarters in Isfahan province. The use of its products in projects for National Oil, Gas, and Power Companies demonstrates the high quality and trust placed by its customers. Focused on innovation, localizing telecommunications technologies, and offering product customization, Faramojsazan is ready to collaborate with both government and private organizations to advance communication technologies in Iran.

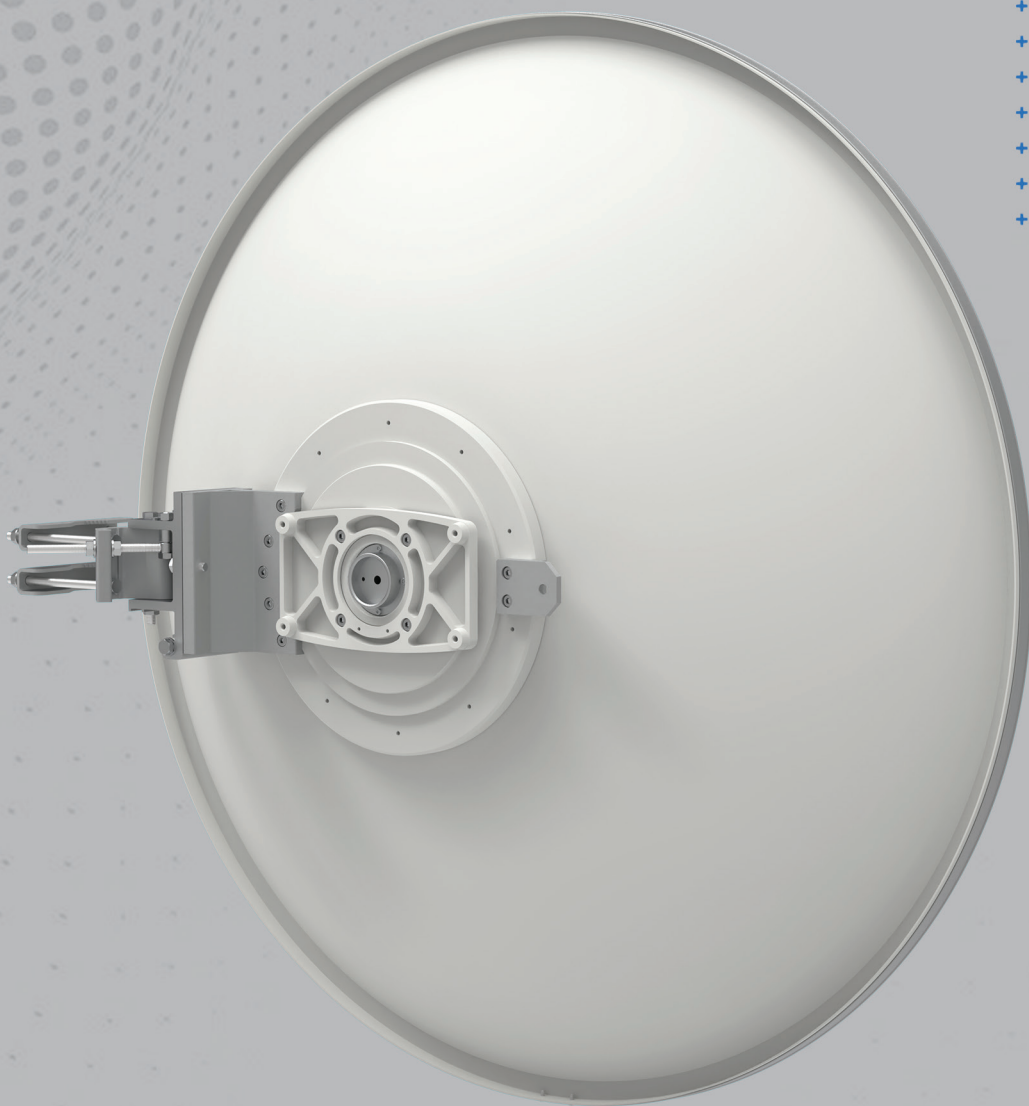


NUVEXEL

NUVEXELs Solution for **Huawei** ODUs



NUVEXEL ANTENNAS ARE SPECIFICALLY DESIGNED FOR USE WITH HUAWEI'S
LATEST ODU_s IN THE FREQUENCY RANGE OF 11 GHz TO 32 GHz.



Product List

1 NVE-A03DXX-HW >

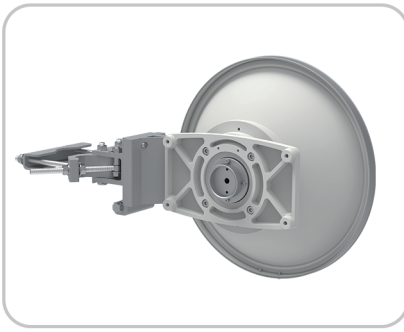
2 NVE-A06DXX-HW >

3 NVE-A09DXX-HW >

4 NVE-A12DXX-HW >



NVE-A03DXX-HW



• NVE-A03DXX-HW

0.3 m, High Performance, Class 3

• General Specifications

Product Type

Microwave antenna

Product Series

UHP-Class3

Electrical Specifications

Model Number	Frequency (GHz)	Gain (dBi)			HPBW (°)	XPD (dB)	F/B Ratio (dB)	VSWR max	Return Loss (dB)	ETSI Standard	Antenna Input
		Low	Mid	High							
NVE-A03D13-HW	12.75 ~ 13.25	30.4	30.5	30.6	4.7	30	56	1.3	17.7	CLASS 3	154IEC-UBR120
NVE-A03D15-HW	14.4 ~ 15.35	31.7	31.9	32.1	4.1	30	60	1.3	17.7	CLASS 3	154IEC-UBR140
NVE-A03D18-HW	17.7 ~ 19.7	33	33.6	34.2	3.2	30	63	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A03D23-HW	21.2 ~ 23.6	34.7	35.2	35.6	2.7	30	62	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A03D26-HW	24.25 ~ 26.5	35.9	36.25	36.7	2.4	30	63	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A03D28-HW	27.5 ~ 29.5	36.9	37.2	37.8	2	30	64	1.3	17.7	CLASS 3	154IEC-UBR320
NVE-A03D32-HW	31.8 ~ 33.4	37.7	38	38.3	1.8	30	58	1.3	17.7	CLASS 3	154IEC-UBR320
NVE-A03D38-HW	37 ~ 40	38.6	39.1	39.5	1.6	30	61	1.3	17.7	CLASS 3	154IEC-UBR320

Mechanical Specifications

Diameter (m)	0.3
Reflector	One-piece reflector
Diameter of mounting pipe (mm)	Ø51 to 114
Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Antenna Color (color charts)	Pure Light Gray polyester
Radome Color	White
Ice-load(mm)	25.4
Operational Temperature (°C)	-45 to +60

Note: The diameter of the mounting pipe is 114mm when testing.

Note: Axial Force/Side Force/Twisting Moment is at wind velocity survival rating.



FARAMOJ SAZAN ERTBATAT PARSIAN

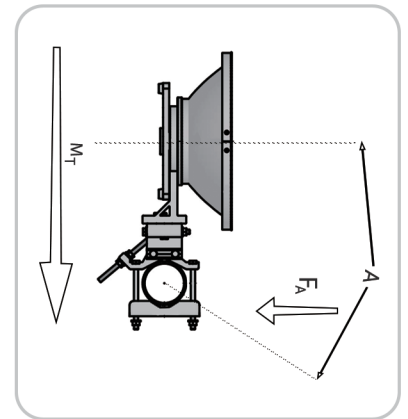
Manufacturer and Supplier of Telecommunication Equipment

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Wind Frocce Survival

Wind Forces At Wind Velocity Survival Rating

Wind Velocity Survival Rating (km/h)	250
Wind Velocity Operational (km/h)	200
Axial Force (N)	460
Side Force (N)	230
Twisting Moment (N-m)	145



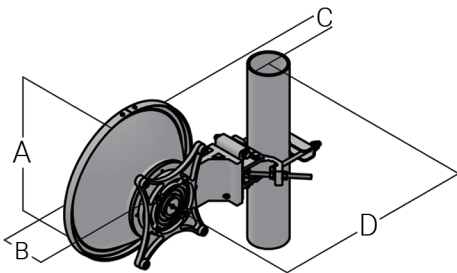
Packing / Dimentions Details

Packing Vs Actual Details

Gross Weight, Full Package (kg)	6.6 ± 1
Net Weight, Only Antenna (kg)	5.2 ± 1
L × W × H (mm × mm × mm)	480 × 460 × 250

Dimentions in mm

Antenna Size (ft/m)	1 (0.36)
A	325
B	154
C	167
D	205



Quick Notes

Gain

There might be a discrepancy in gain measurements across different test sites. The measurement error should remain below 0.5 dB.

Radiation Pattern Envelope Reference (RPE)

The RPE of the antenna is produced based on the specified gain; therefore, any variation in gain will result in a corresponding deviation in the RPE. In theory, this pattern deviation should not exceed 0.5 dB.

Front-to-Back Ratio

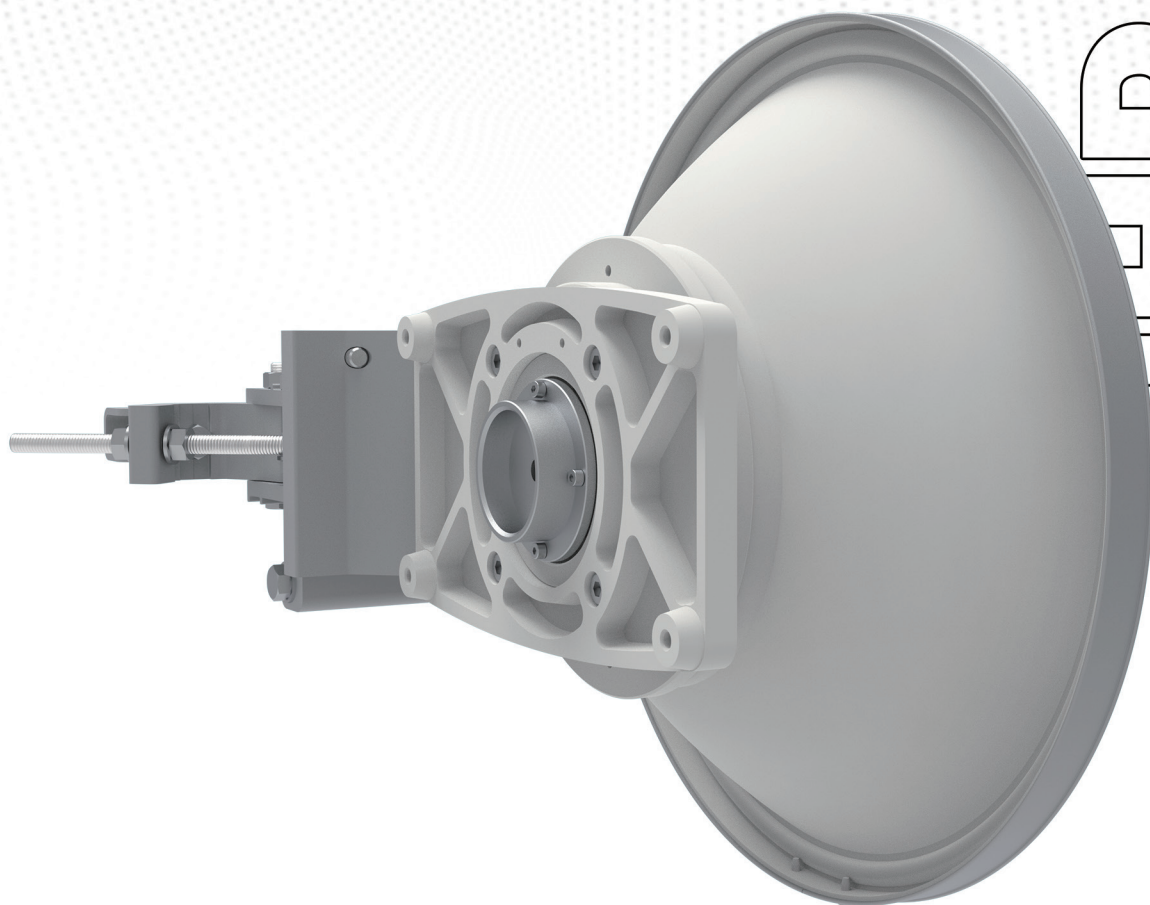
Represents the maximum backward radiation, relative to the main lobe, within the range of $180^\circ \pm 40^\circ$. Production antennas typically do not exceed the specified values by more than 2 dB unless otherwise noted.

Cross Polarization Discrimination (XPD)

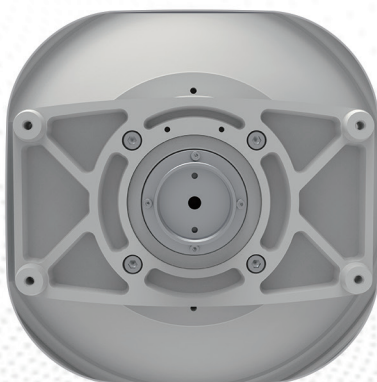
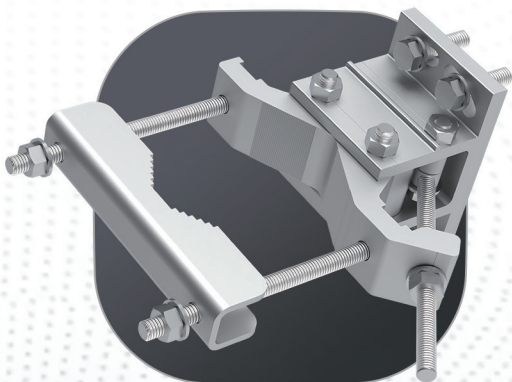
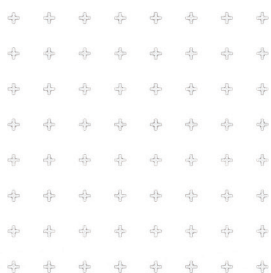
The specified 30 dB antenna XPD is verified in a professional test facility. Although both antennas exhibit 30 dB XPD in the link, the measured link XPD may decrease to as low as 24 dB under certain conditions.

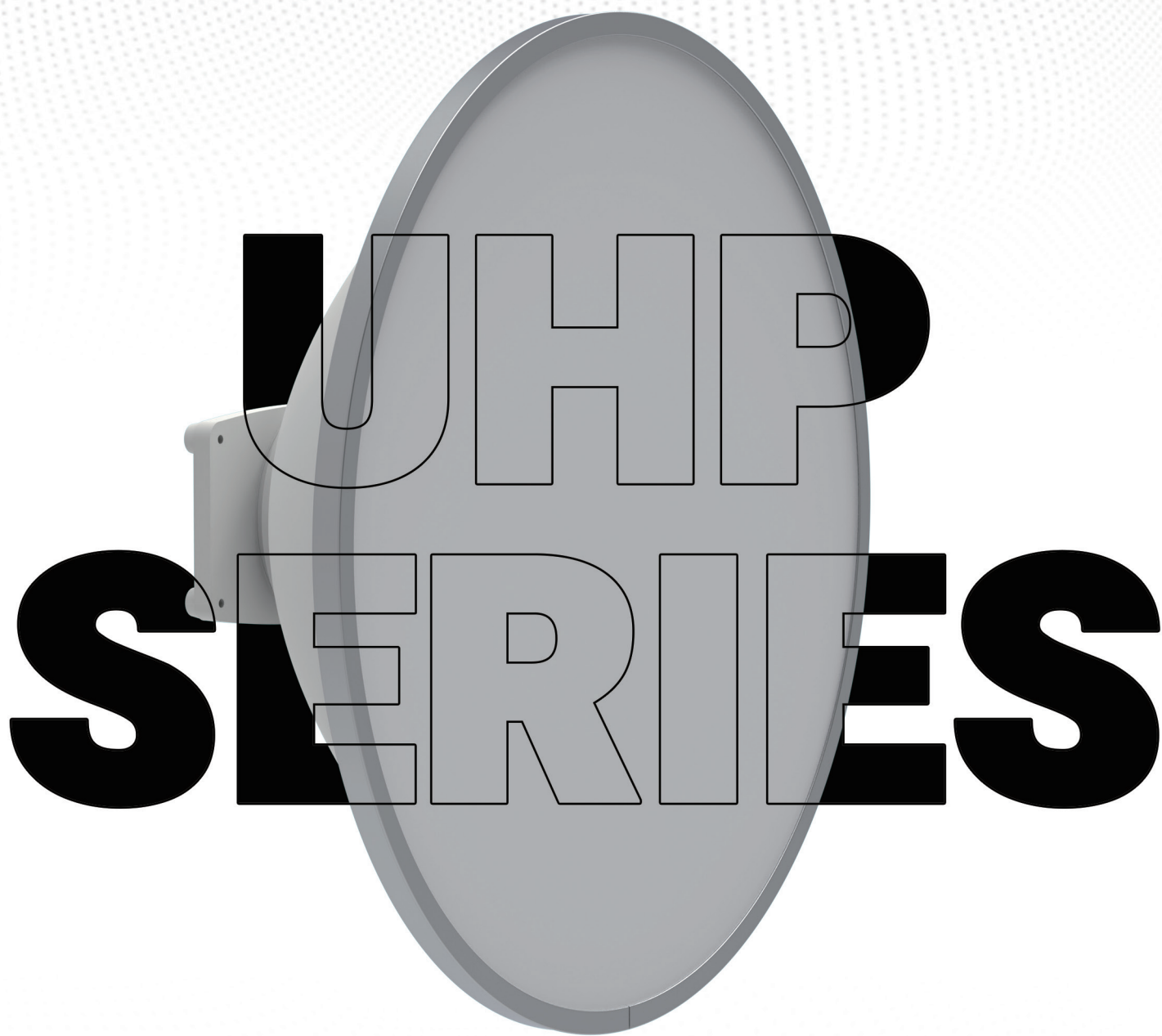


Fully Compatible With Huawei ODUs



HP
SERIES





NVE-A06DXX-HW

Product Specifications



• NVE-A06DXX-HW

0.6 m, High Performance, Class 3

• General Specifications

Product Type

Microwave antenna

Product Series

UHP-Class3

Electrical Specifications

Model Number	Frequency (GHz)	Gain (dBi)			HPBW (°)	XPD (dB)	F/B Ratio (dB)	VSWR max	Return Loss (dB)	ETSI Standard	Antenna Input
		Low	Mid	High							
NVE-A06D13-HW	12.75 ~ 13.25	35.8	36	36.2	2.7	30	61	1.3	17.7	CLASS 3	154IEC-UBR120
NVE-A06D15-HW	14.4 ~ 15.35	36.7	37.1	37.3	2.4	30	65	1.3	17.7	CLASS 3	154IEC-UBR140
NVE-A06D18-HW	17.7 ~ 19.7	38.6	39.4	39.8	1.8	30	67	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A06D23-HW	21.2 ~ 23.6	40.2	40.7	41.2	1.55	30	66	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A06D26-HW	24.25 ~ 26.5	41.5	42	42.5	1.3	30	68	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A06D28-HW	27.5 ~ 29.5	42.5	42.8	43.2	1.2	30	69	1.3	17.7	CLASS 3	154IEC-UBR320
NVE-A06D32-HW	31.8 ~ 33.4	43.2	43.5	43.8	1.1	30	63	1.3	17.7	CLASS 3	154IEC-UBR320
NVE-A06D38-HW	37 ~ 40	44.6	45.2	45.8	0.9	30	66	1.3	17.7	CLASS 3	154IEC-UBR320

Mechanical Specifications

Diameter (m)	0.6
Reflector	One-piece reflector
Diameter of mounting pipe (mm)	Ø51 to 114
Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Antenna Color (color charts)	Pure Light Gray polyester
Radome Color	White
Ice-load(mm)	25.4
Operational Temperature (°C)	-45 to +60

Note: The diameter of the mounting pipe is 114mm when testing.

Note: Axial Force/Side Force/Twisting Moment is at wind velocity survival rating.



FARAMOJ SAZAN ERTBATAT PARSIAN

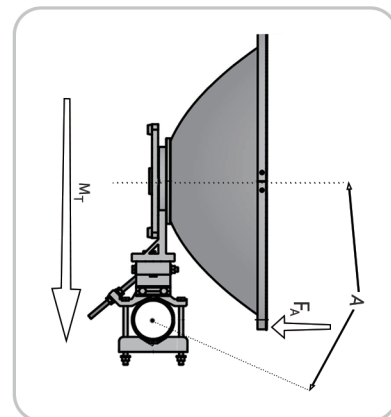
Manufacturer and Supplier of Telecommunication Equipment

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Wind Force Survival

Wind Forces At Wind Velocity Survival Rating

Wind Velocity Survival Rating (km/h)	250
Wind Velocity Operational (km/h)	200
Axial Force (N)	1260
Side Force (N)	620
Twisting Moment (N-m)	395



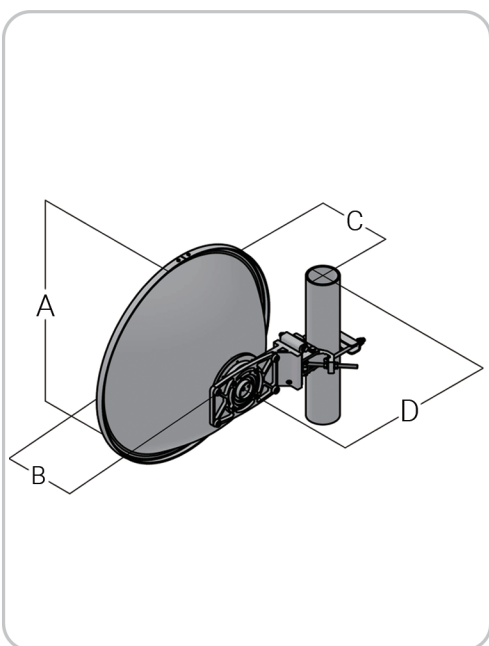
Packing / Dimensions Details

Packing Vs Actual Details

Gross Weight, Full Package (kg)	8.7 ± 1
Net Weight, Only Antenna (kg)	76.8 ± 1
L × W × H (mm × mm × mm)	790 × 600 × 345

Dimensions in mm

Antenna Size (ft/m)	2.1 (0.64)
A	672
B	279
C	266
D	205



Quick Notes

Gain

There might be a discrepancy in gain measurements across different test sites. The measurement error should remain below 0.5 dB.

Radiation Pattern Envelope Reference (RPE)

The RPE of the antenna is produced based on the specified gain; therefore, any variation in gain will result in a corresponding deviation in the RPE. In theory, this pattern deviation should not exceed 0.5 dB.

Front-to-Back Ratio

Represents the maximum backward radiation, relative to the main lobe, within the range of $180^\circ \pm 40^\circ$. Production antennas typically do not exceed the specified values by more than 2 dB unless otherwise noted.

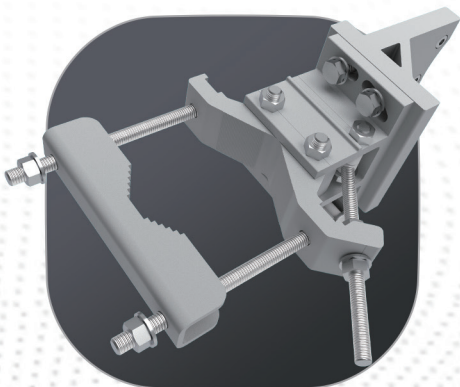
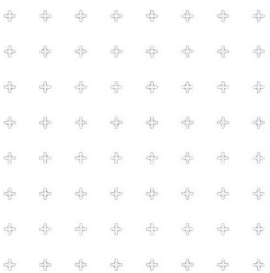
Cross Polarization Discrimination (XPD)

The specified 30 dB antenna XPD is verified in a professional test facility. Although both antennas exhibit 30 dB XPD in the link, the measured link XPD may decrease to as low as 24 dB under certain conditions.



Fully Compatible With Huawei ODUs

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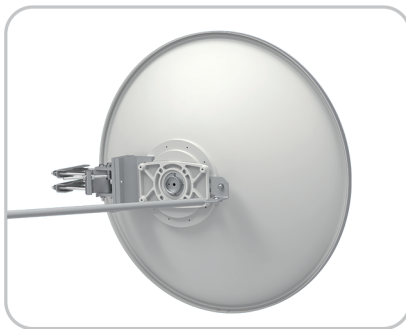


UHP SERIES

NVE-A09DXX-HW



Product Specifications



• NVE-A09DXX-HW

0.9 m, High Performance, Class 3

• General Specifications

Product Type

Microwave antenna

Product Series

UHP-Class3

Electrical Specifications

Model Number	Frequency (GHz)	Gain (dBi)			HPBW (°)	XPD (dB)	F/B Ratio (dB)	VSWR max	Return Loss (dB)	ETSI Standard	Antenna Input
		Low	Mid	High							
NVE-A09D13-HW	12.75 ~ 13.25	39.9	40	40.1	1.8	30	64	1.3	17.7	CLASS 3	154IEC-UBR120
NVE-A09D15-HW	14.4 ~ 15.35	40.3	40.6	40.9	1.6	30	67	1.3	17.7	CLASS 3	154IEC-UBR140
NVE-A09D18-HW	17.7 ~ 19.7	33	33.6	34.2	1.2	30	70	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A09D23-HW	21.2 ~ 23.6	34.7	35.2	35.6	1	30	67	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A09D26-HW	24.25 ~ 26.5	35.9	36.25	36.7	1	30	70	1.3	17.7	CLASS 3	154IEC-UBR220

Mechanical Specifications

Diameter (m)	0.9
Reflector	One-piece reflector
Diameter of mounting pipe (mm)	Ø51 to 114
Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Antenna Color (color charts)	Pure Light Gray polyester
Radome Color	White
Ice-load(mm)	25.4
Operational Temperature (°C)	-45 to +60

Note: The diameter of the mounting pipe is 114mm when testing.

Note: Axial Force/Side Force/Twisting Moment is at wind velocity survival rating.



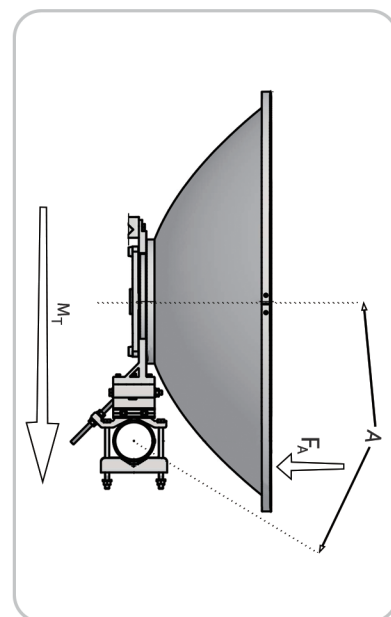
FARAMOJ SAZAN ERTBATAT PARSIAN

Manufacturer and Supplier of Telecommunication Equipment

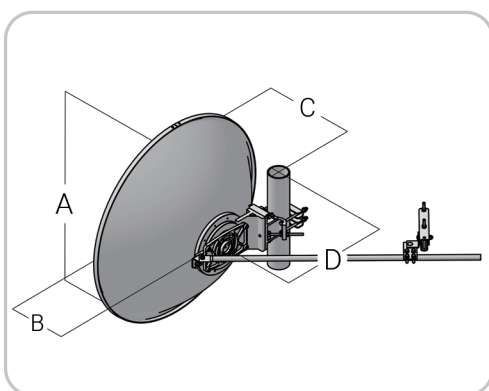
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Wind Forces At Wind Velocity Survival Rating

Wind Velocity Survival Rating (km/h)	250
Wind Velocity Operational (km/h)	200
Axial Force (N)	3074
Side Force (N)	1537
Twisting Moment (N-m)	1150
Gross Weight, Packed Antenna (kg)	8.7 ± 1
Net Weight, Only Antenna (kg)	6.8 ± 1
L × W × H (mm × mm × mm)	790 × 600 × 345



Antenna Dimensions



Dimensions in mm

Antenna Size (ft/m)	3.11 (0.95)
A	1014
B	343
C	331
D	337

Quick Notes

Gain

There might be a discrepancy in gain measurements across different test sites. The measurement error should remain below 0.5 dB.

Radiation Pattern Envelope Reference (RPE)

The RPE of the antenna is produced based on the specified gain; therefore, any variation in gain will result in a corresponding deviation in the RPE. In theory, this pattern deviation should not exceed 0.5 dB.

Front-to-Back Ratio

Represents the maximum backward radiation, relative to the main lobe, within the range of $180^\circ \pm 40^\circ$. Production antennas typically do not exceed the specified values by more than 2 dB unless otherwise noted.

Cross Polarization Discrimination (XPD)

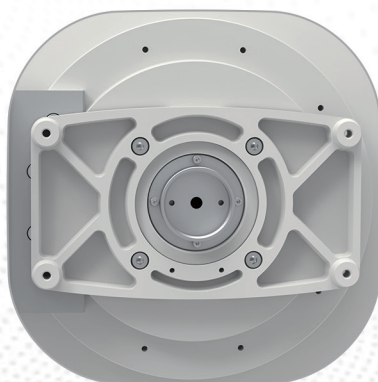
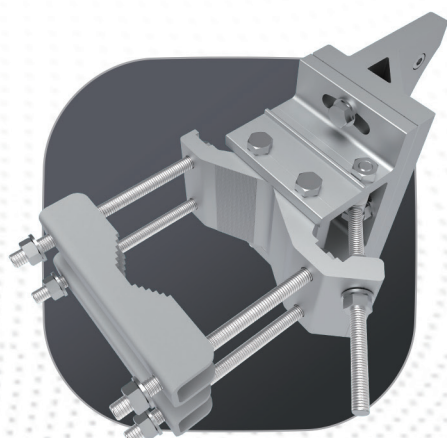
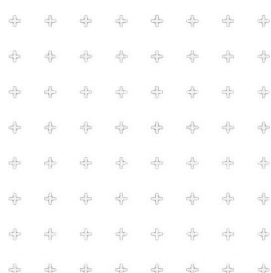
The specified 30 dB antenna XPD is verified in a professional test facility. Although both antennas exhibit 30 dB XPD in the link, the measured link XPD may decrease to as low as 24 dB under certain conditions.

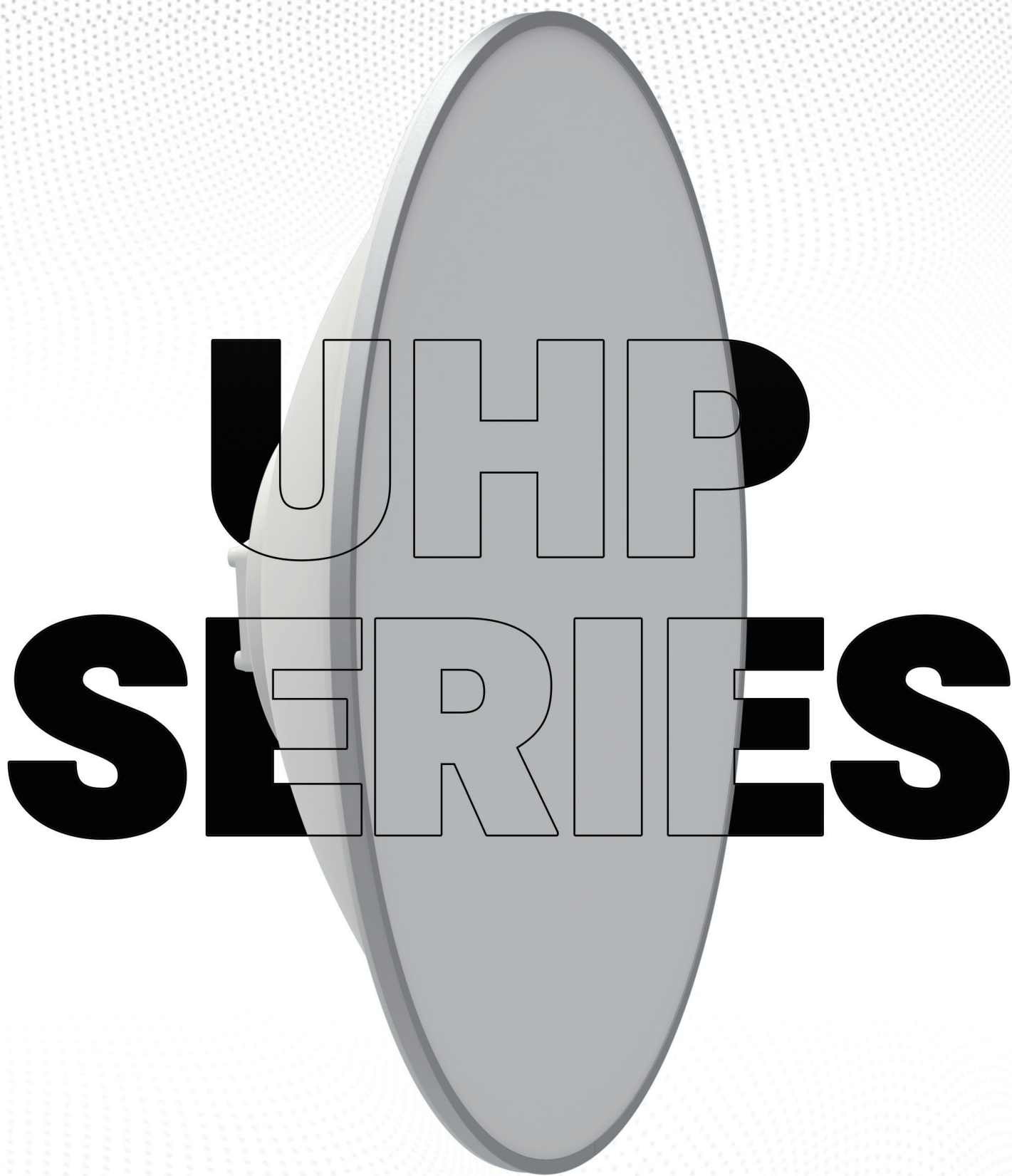


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UHP
SERIES





NVE-A12DXX-HW



NVE-A12DXX-HW

1.2 m, High Performance, Class 3

General Specifications

Product Type **Microwave antenna** Product Series **UHP-Class3**

Electrical Specifications

Model Number	Frequency (GHz)	Gain (dBi)			HPBW (°)	XPD (dB)	F/B Ratio (dB)	VSWR max	Return Loss (dB)	ETSI Standard	Antenna Input
		Low	Mid	High							
NVE-A12D13-HW	12.75 ~ 13.25	41.9	42	42.1	1.3	30	68	1.3	17.7	CLASS 3	154IEC-UBR120
NVE-A12D15-HW	14.4 ~ 15.35	42.8	43	43.2	1.2	30	71	1.3	17.7	CLASS 3	154IEC-UBR140
NVE-A12D18-HW	17.7 ~ 19.7	44.4	44.7	45.1	0.9	30	73	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A12D23-HW	21.2 ~ 23.6	45.8	46.2	46.5	0.8	30	74	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A12D26-HW	24.25 ~ 26.5	46.7	47.2	47.6	0.6	30	75	1.3	17.7	CLASS 3	154IEC-UBR220

Mechanical Specifications

Diameter (m)	1.2
Reflector	One-piece reflector
Diameter of mounting pipe (mm)	Ø51 to 114
Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Antenna Color (color charts)	Pure Light Gray polyester
Radome Color	White
Ice-load(mm)	25.4
Operational Temperature (°C)	-45 to +60

Note: The diameter of the mounting pipe is 114mm when testing.

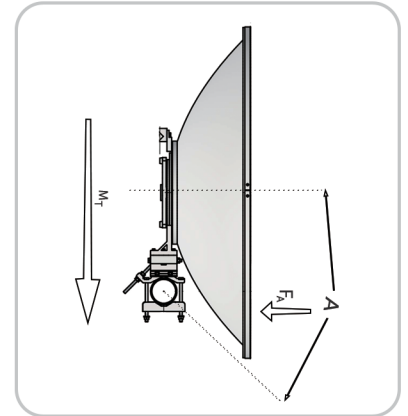
Note: Axial Force/Side Force/Twisting Moment is at wind velocity survival rating.



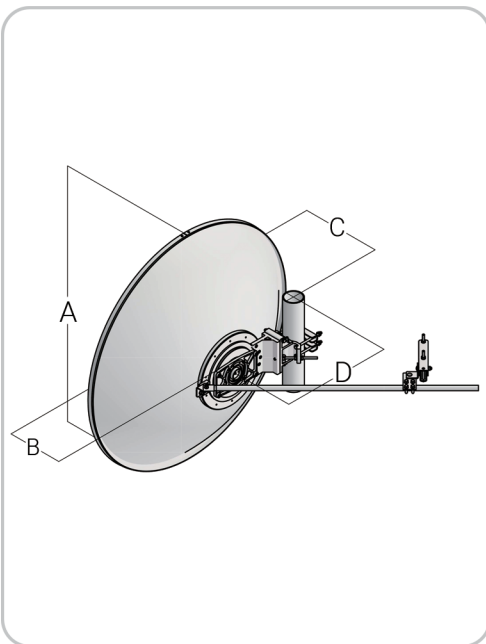
Wind Frocce Survival

Wind Forces At Wind Velocity Survival Rating

Wind Velocity Survival Rating (km/h)	250
Wind Velocity Operational (km/h)	200
Axial Force (N)	4916
Side Force (N)	2458
Twisting Moment (N-m)	1893



Packing / Dimentions Details



Packing Vs Actual Details

Gross Weight, Full Package (kg)	67.8 ± 4
Net Weight, Only Antenna (kg)	43.4 ± 1
L × W × H (mm × mm × mm)	1380 × 380 × 1550

Dimentions in mm

Antenna Size (ft/m)	3.93 (1.2)
A	1254
B	344
C	329
D	374

Quick Notes

Gain

There might be a discrepancy in gain measurements across different test sites. The measurement error should remain below 0.5 dB.

Radiation Pattern Envelope Reference (RPE)

The RPE of the antenna is produced based on the specified gain; therefore, any variation in gain will result in a corresponding deviation in the RPE. In theory, this pattern deviation should not exceed 0.5 dB.

Front-to-Back Ratio

Represents the maximum backward radiation, relative to the main lobe, within the range of $180^\circ \pm 40^\circ$. Production antennas typically do not exceed the specified values by more than 2 dB unless otherwise noted.

Cross Polarization Discrimination (XPD)

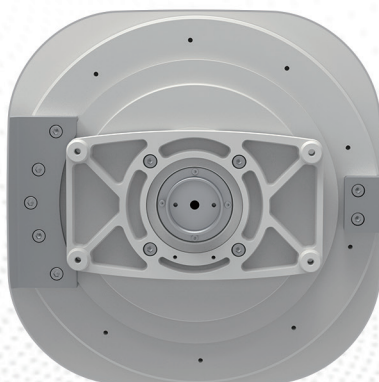
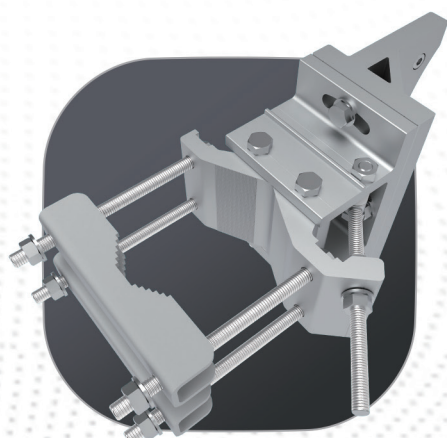
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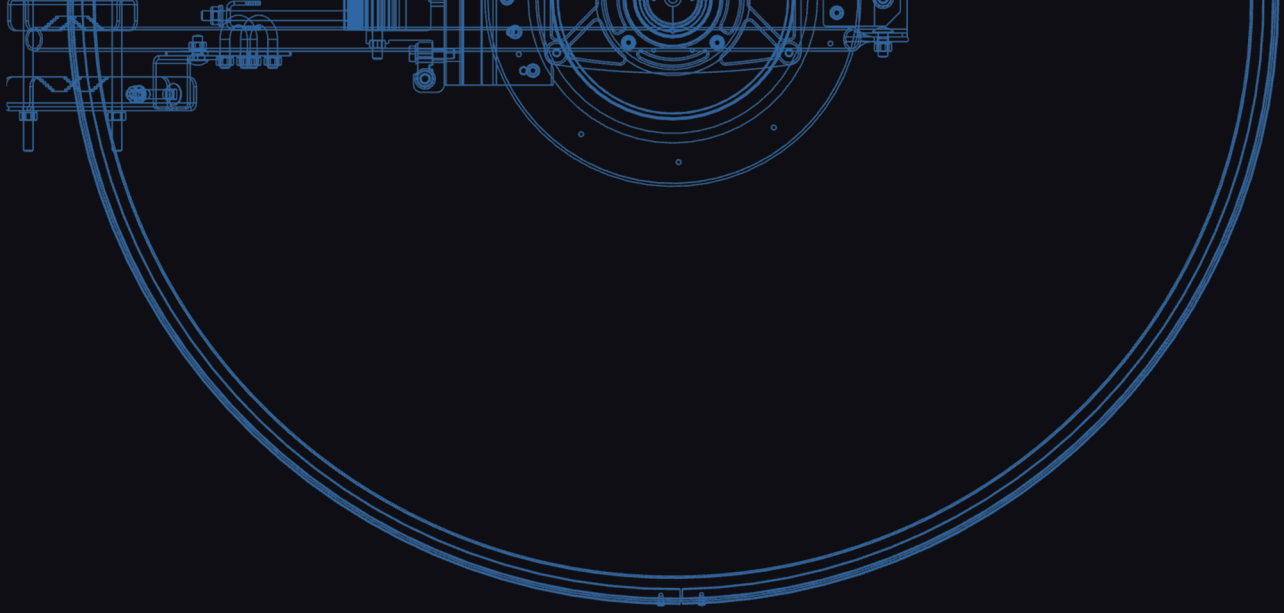


Fully Compatible With Huawei ODU's



**PHS
SERIES**





NUVEXEL

NUVEXELs Solution for **Ericsson** ODU_s



NUVEXEL ANTENNAS ARE SPECIFICALLY DESIGNED FOR USE WITH ERICSSON
LATEST ODU_s IN THE FREQUENCY RANGE OF 11 GHz TO 32 GHz.



Product List

1 NVE-A03DXX-ER >

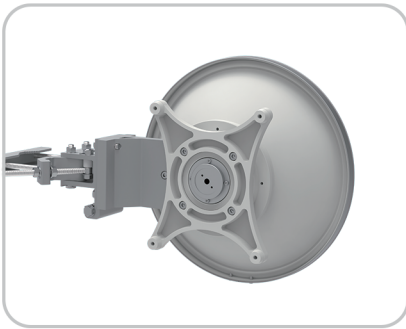
2 NVE-A06DXX-ER >

3 NVE-A09DXX-ER >

4 NVE-A12DXX-ER >



NVE-A03DXX-ER



NVE-A03DXX-ER

0.3 m, High Performance, Class 3

General Specifications

Product Type **Microwave antenna** Product Series **UHP-Class3**

Electrical Specifications

Model Number	Frequency (GHz)	Gain (dBi)			HPBW (°)	XPD (dB)	F/B Ratio (dB)	VSWR max	Return Loss (dB)	ETSI Standard	Antenna Input
		Low	Mid	High							
NVE-A03D13-ER	12.75 ~ 13.25	30.4	30.5	30.6	4.7	30	56	1.3	17.7	CLASS 3	154IEC-UBR120
NVE-A03D15-ER	14.4 ~ 15.35	31.7	31.9	32.1	4.1	30	60	1.3	17.7	CLASS 3	154IEC-UBR140
NVE-A03D18-ER	17.7 ~ 19.7	33	33.6	34.2	3.2	30	63	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A03D23-ER	21.2 ~ 23.6	34.7	35.2	35.6	2.7	30	62	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A03D26-ER	24.25 ~ 26.5	35.9	36.25	36.7	2.4	30	63	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A03D28-ER	27.5 ~ 29.5	36.9	37.2	37.8	2	30	64	1.3	17.7	CLASS 3	154IEC-UBR320
NVE-A03D32-ER	31.8 ~ 33.4	37.7	38	38.3	1.8	30	58	1.3	17.7	CLASS 3	154IEC-UBR320
NVE-A03D38-ER	37 ~ 40	38.6	39.1	39.5	1.6	30	61	1.3	17.7	CLASS 3	154IEC-UBR320

Mechanical Specifications

Diameter (m)	0.3
Reflector	One-piece reflector
Diameter of mounting pipe (mm)	Ø51 to 114
Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Antenna Color (color charts)	Pure Light Gray polyester
Radome Color	White
Ice-load(mm)	25.4
Operational Temperature (°C)	-45 to +60

Note: The diameter of the mounting pipe is 114mm when testing.

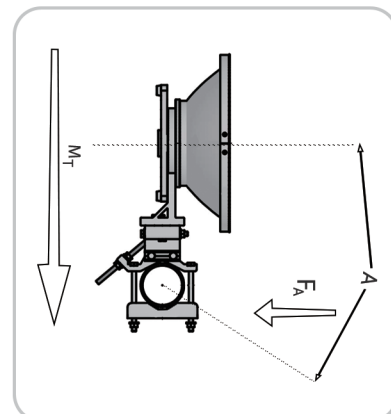
Note: Axial Force/Side Force/Twisting Moment is at wind velocity survival rating.



Wind Frocce Survival

Wind Forces At Wind Velocity Survival Rating

Wind Velocity Survival Rating (km/h)	250
Wind Velocity Operational (km/h)	200
Axial Force (N)	460
Side Force (N)	230
Twisting Moment (N-m)	145



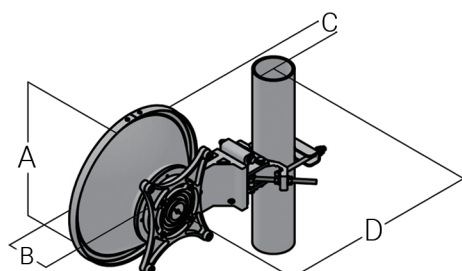
Packing / Dimentions Details

Packing Vs Actual Details

Gross Weight, Full Package (kg)	6.6 ± 1
Net Weight, Only Antenna (kg)	5.2 ± 1
L × W × H (mm × mm × mm)	480 × 460 × 250

Dimentions in mm

Antenna Size (ft/m)	1 (0.36)
A	404
B	168
C	154
D	325



Quick Notes

Gain

There might be a discrepancy in gain measurements across different test sites. The measurement error should remain below 0.5 dB.

Radiation Pattern Envelope Reference (RPE)

The RPE of the antenna is produced based on the specified gain; therefore, any variation in gain will result in a corresponding deviation in the RPE. In theory, this pattern deviation should not exceed 0.5 dB.

Front-to-Back Ratio

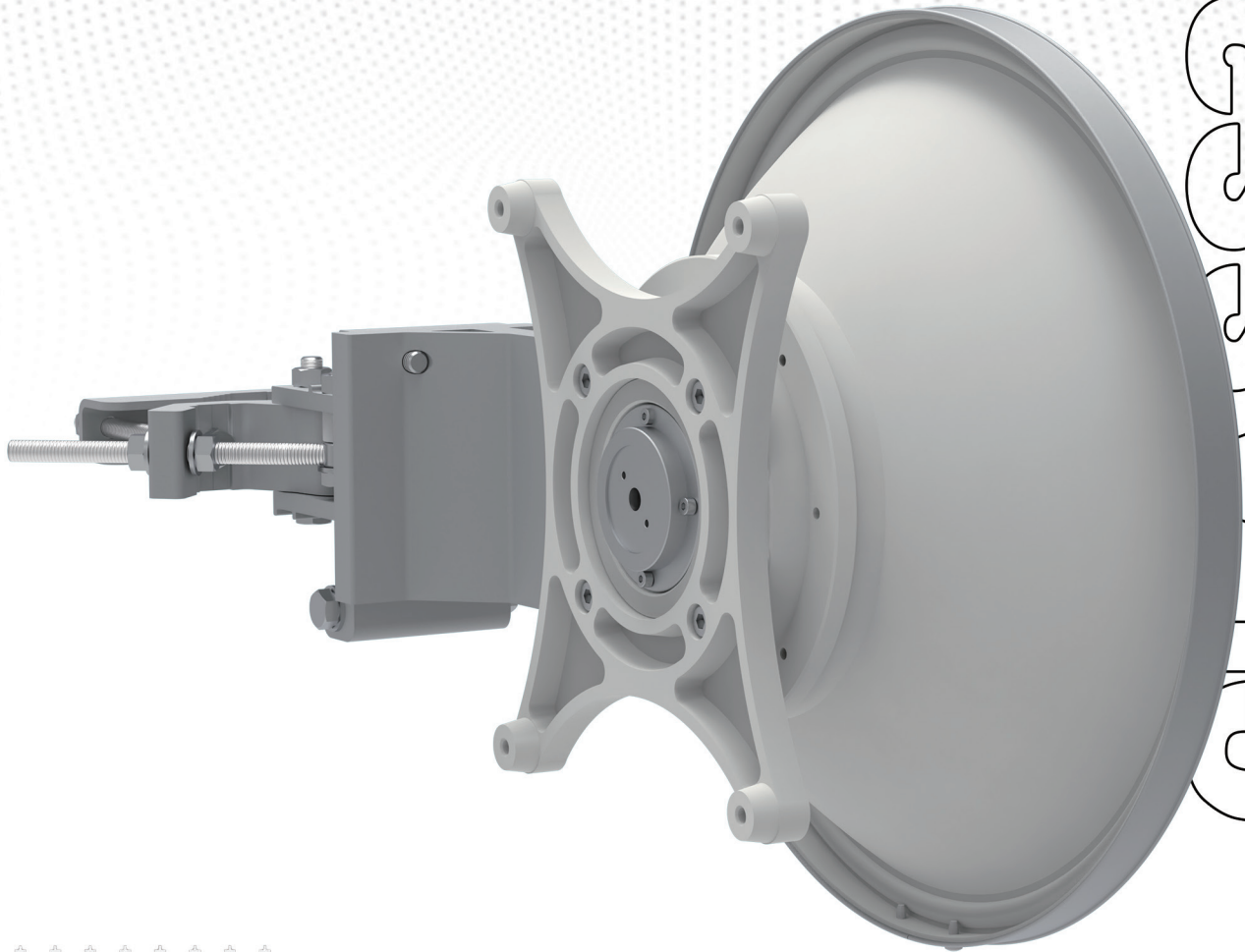
Represents the maximum backward radiation, relative to the main lobe, within the range of $180^\circ \pm 40^\circ$. Production antennas typically do not exceed the specified values by more than 2 dB unless otherwise noted.

Cross Polarization Discrimination (XPD)

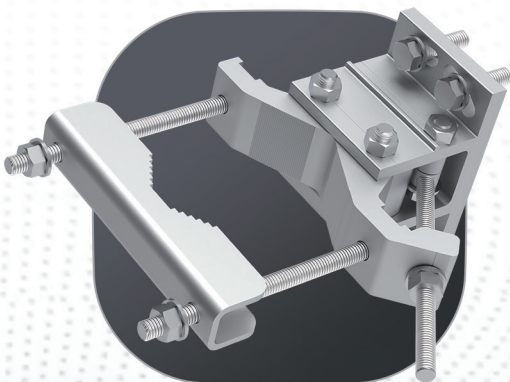
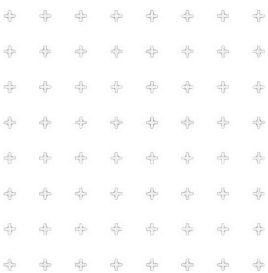
The specified 30 dB antenna XPD is verified in a professional test facility. Although both antennas exhibit 30 dB XPD in the link, the measured link XPD may decrease to as low as 24 dB under certain conditions.



Fully Compatible With Ericsson ODUs



**GLASS3
MODULAR ANTENNA**

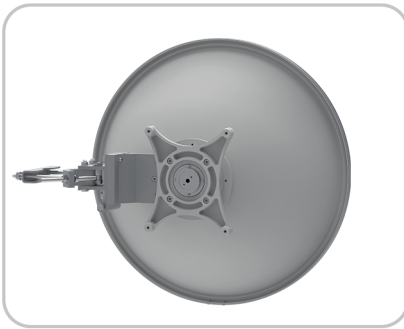


Fully Compatible With Ericsson ODUs



Introducing NVE-A06DXX-ER

Product Specifications



• NVE-A06DXX-ER

0.6 m, High Performance, Class 3

• General Specifications

Product Type

Microwave antenna

Product Series

UHP-Class3

Electrical Specifications

Model Number	Frequency (GHz)	Gain (dBi)			HPBW (°)	XPD (dB)	F/B Ratio (dB)	VSWR max	Return Loss (dB)	ETSI Standard	Antenna Input
		Low	Mid	High							
NVE-A06D13-ER	12.75 ~ 13.25	35.8	36	36.2	2.7	30	61	1.3	17.7	CLASS 3	154IEC-UBR120
NVE-A06D15-ER	14.4 ~ 15.35	36.7	37.1	37.3	2.4	30	65	1.3	17.7	CLASS 3	154IEC-UBR140
NVE-A06D18-ER	17.7 ~ 19.7	38.6	39.4	39.8	1.8	30	67	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A06D23-ER	21.2 ~ 23.6	40.2	40.7	41.2	1.55	30	66	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A06D26-ER	24.25 ~ 26.5	41.5	42	42.5	1.3	30	68	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A06D28-ER	27.5 ~ 29.5	42.5	42.8	43.2	1.2	30	69	1.3	17.7	CLASS 3	154IEC-UBR320
NVE-A06D32-ER	31.8 ~ 33.4	43.2	43.5	43.8	1.1	30	63	1.3	17.7	CLASS 3	154IEC-UBR320
NVE-A06D38-ER	37 ~ 40	44.6	45.2	45.8	0.9	30	66	1.3	17.7	CLASS 3	154IEC-UBR320

Mechanical Specifications

Diameter (m)	0.6
Reflector	One-piece reflector
Diameter of mounting pipe (mm)	Ø51 to 114
Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Antenna Color (color charts)	Pure Light Gray polyester
Radome Color	White
Ice-load(mm)	25.4
Operational Temperature (°C)	-45 to +60

Note: The diameter of the mounting pipe is 114mm when testing.

Note: Axial Force/Side Force/Twisting Moment is at wind velocity survival rating.



FARAMOJ SAZAN ERTBATAT PARSIAN

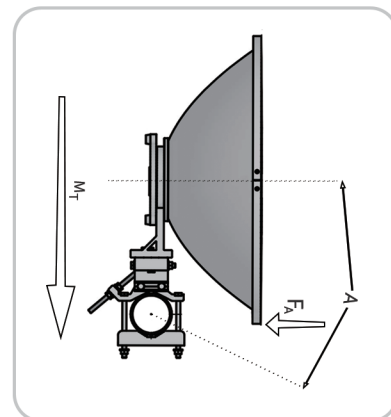
Manufacturer and Supplier of Telecommunication Equipment

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Wind Frocce Survival

Wind Forces At Wind Velocity Survival Rating

Wind Velocity Survival Rating (km/h)	250
Wind Velocity Operational (km/h)	200
Axial Force (N)	1260
Side Force (N)	620
Twisting Moment (N-m)	395



Packing / Dimentions Details

Packing Vs Actual Details

Gross Weight, Full Package (kg)	8.7 ± 1
Net Weight, Only Antenna (kg)	76.8 ± 1
L × W × H (mm × mm × mm)	790 × 600 × 345

Dimentions in mm

Antenna Size (ft/m)	2.1 (0.64)
A	694
B	280
C	266
D	325

Quick Notes

Gain

There might be a discrepancy in gain measurements across different test sites. The measurement error should remain below 0.5 dB.

Radiation Pattern Envelope Reference (RPE)

The RPE of the antenna is produced based on the specified gain; therefore, any variation in gain will result in a corresponding deviation in the RPE. In theory, this pattern deviation should not exceed 0.5 dB.

Front-to-Back Ratio

Represents the maximum backward radiation, relative to the main lobe, within the range of $180^\circ \pm 40^\circ$. Production antennas typically do not exceed the specified values by more than 2 dB unless otherwise noted.

Cross Polarization Discrimination (XPD)

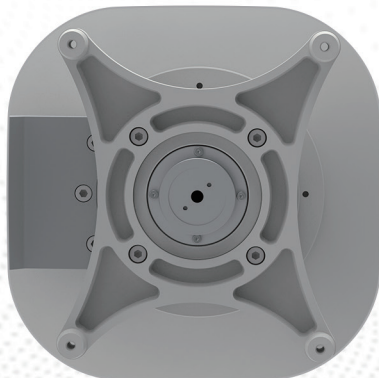
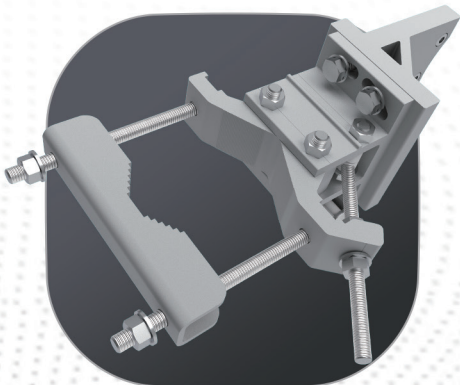
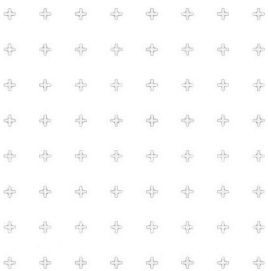
The specified 30 dB antenna XPD is verified in a professional test facility. Although both antennas exhibit 30 dB XPD in the link, the measured link XPD may decrease to as low as 24 dB under certain conditions.

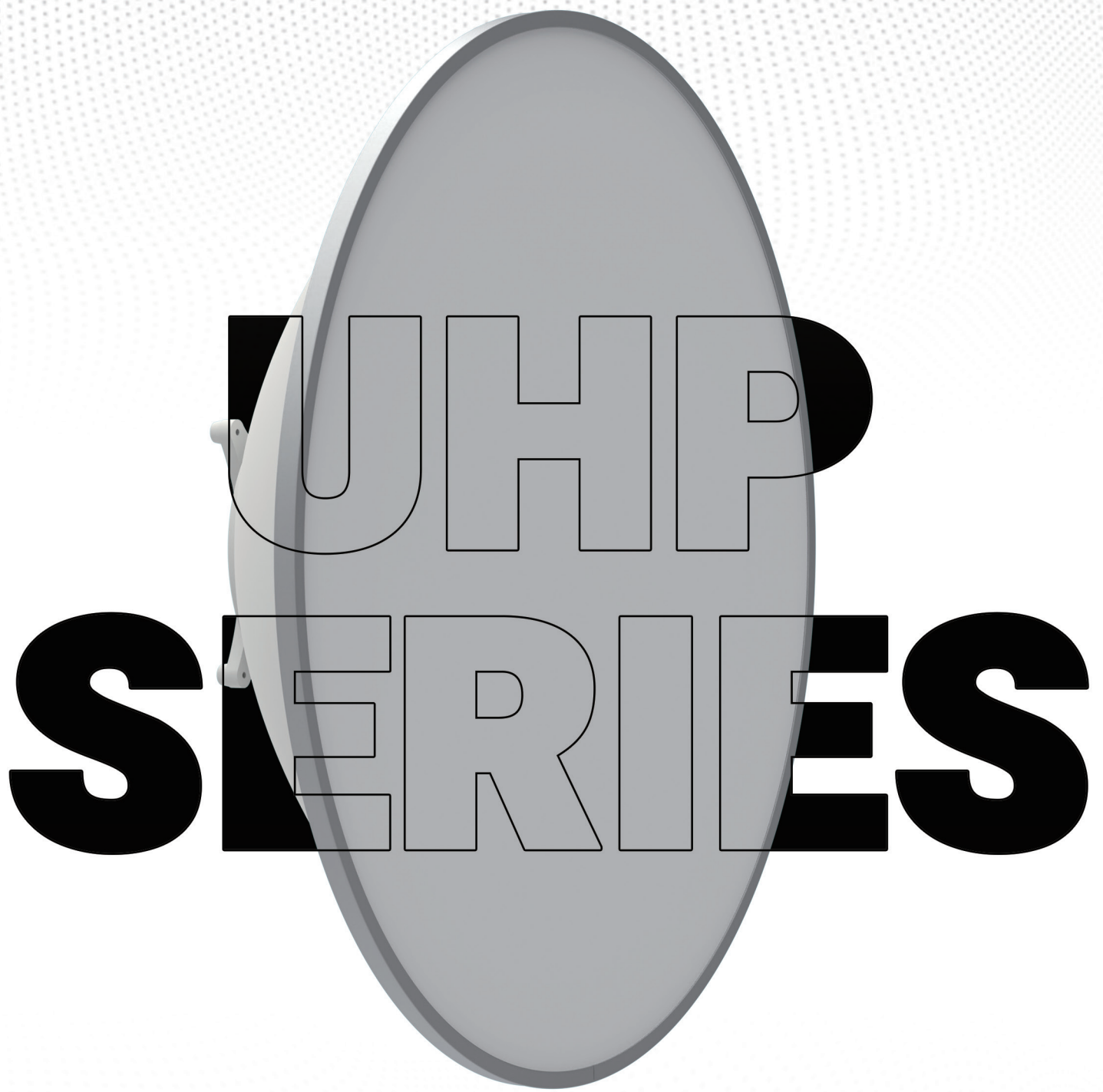


Fully Compatible With Ericsson ODU's



CLASS3 MODULAR ANTENNA





Introducing NVE-A09DXX-ER

Product Specifications



NVE-A09DXX-ER

0.9 m, High Performance, Class 3

General Specifications

Product Type

Microwave antenna

Product Series

UHP-Class3

Electrical Specifications

Model Number	Frequency (GHz)	Gain (dBi)			HPBW (°)	XPD (dB)	F/B Ratio (dB)	VSWR max	Return Loss (dB)	ETSI Standard	Antenna Input
		Low	Mid	High							
NVE-A09D13-ER	12.75 ~ 13.25	39.9	40	40.1	1.8	30	64	1.3	17.7	CLASS 3	154IEC-UBR120
NVE-A09D15-ER	14.4 ~ 15.35	40.3	40.6	40.9	1.6	30	67	1.3	17.7	CLASS 3	154IEC-UBR140
NVE-A09D18-ER	17.7 ~ 19.7	33	33.6	34.2	1.2	30	70	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A09D23-ER	21.2 ~ 23.6	34.7	35.2	35.6	1	30	67	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A09D26-ER	24.25 ~ 26.5	35.9	36.25	36.7	1	30	70	1.3	17.7	CLASS 3	154IEC-UBR220

Mechanical Specifications

Diameter (m)	0.9
Reflector	One-piece reflector
Diameter of mounting pipe (mm)	Ø51 to 114
Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Antenna Color (color charts)	Pure Light Gray polyester
Radome Color	White
Ice-load(mm)	25.4
Operational Temperature (°C)	-45 to +60

Note: The diameter of the mounting pipe is 114mm when testing.

Note: Axial Force/Side Force/Twisting Moment is at wind velocity survival rating.



FARAMOJ SAZAN ERTBATAT PARSIAN

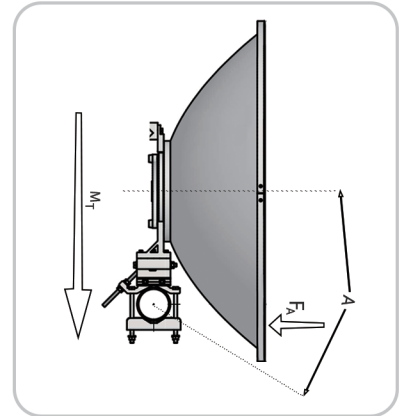
Manufacturer and Supplier of Telecommunication Equipment

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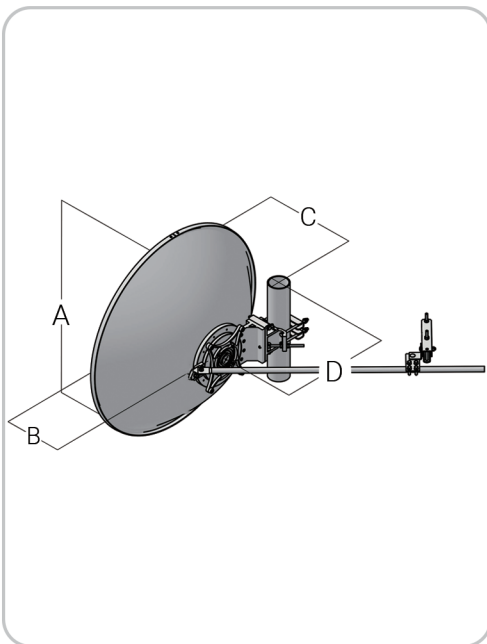
Wind Frocce Survival

Wind Forces At Wind Velocity Survival Rating

Wind Velocity Survival Rating (km/h)	250
Wind Velocity Operational (km/h)	200
Axial Force (N)	3074
Side Force (N)	1537
Twisting Moment (N-m)	1150



Packing / Dimentions Details



Packing Vs Actual Details

Gross Weight, Full Package (kg)	47 ± 4
Net Weight, Only Antenna (kg)	21.9 ± 1
L × W × H (mm × mm × mm)	1100 × 525 × 1270

Dimentions in mm

Antenna Size (ft/m)	3.11 (0.95)
A	1014
B	343
C	331
D	337

Quick Notes

Gain

There might be a discrepancy in gain measurements across different test sites. The measurement error should remain below 0.5 dB.

Radiation Pattern Envelope Reference (RPE)

The RPE of the antenna is produced based on the specified gain; therefore, any variation in gain will result in a corresponding deviation in the RPE. In theory, this pattern deviation should not exceed 0.5 dB.

Front-to-Back Ratio

Represents the maximum backward radiation, relative to the main lobe, within the range of $180^\circ \pm 40^\circ$. Production antennas typically do not exceed the specified values by more than 2 dB unless otherwise noted.

Cross Polarization Discrimination (XPD)

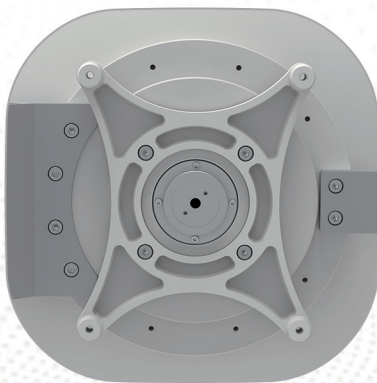
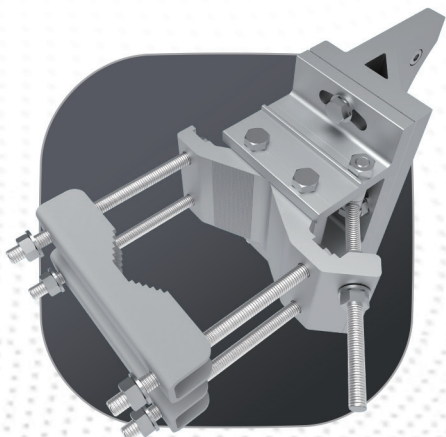
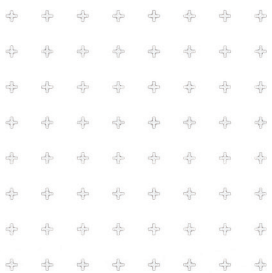
The specified 30 dB antenna XPD is verified in a professional test facility. Although both antennas exhibit 30 dB XPD in the link, the measured link XPD may decrease to as low as 24 dB under certain conditions.



Fully Compatible With Ericsson ODU's



CLASS3
MODULAR ANTENNA



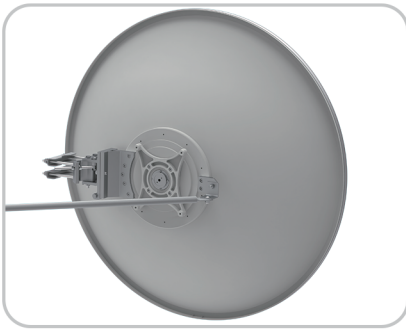


UHP SERIES

Introducing NVE-A12DXX-ER



Product Specifications



• **NVE-A12DXX-ER**

1.2 m, High Performance, Class 3

• **General Specifications**

Product Type **Microwave antenna** Product Series **UHP-Class3**

Electrical Specifications

Model Number	Frequency (GHz)	Gain (dBi)			HPBW (°)	XPD (dB)	F/B Ratio (dB)	VSWR max	Return Loss (dB)	ETSI Standard	Antenna Input
		Low	Mid	High							
NVE-A12D13-ER	12.75 ~ 13.25	41.9	42	42.1	1.3	30	68	1.3	17.7	CLASS 3	154IEC-UBR120
NVE-A12D15-ER	14.4 ~ 15.35	42.8	43	43.2	1.2	30	71	1.3	17.7	CLASS 3	154IEC-UBR140
NVE-A12D18-ER	17.7 ~ 19.7	44.4	44.7	45.1	0.9	30	73	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A12D23-ER	21.2 ~ 23.6	45.8	46.2	46.5	0.8	30	74	1.3	17.7	CLASS 3	154IEC-UBR220
NVE-A12D26-ER	24.25 ~ 26.5	46.7	47.2	47.6	0.6	30	75	1.3	17.7	CLASS 3	154IEC-UBR220

Mechanical Specifications

Diameter (m)	1.2
Reflector	One-piece reflector
Diameter of mounting pipe (mm)	Ø51 to 114
Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Antenna Color (color charts)	Pure Light Gray polyester
Radome Color	White
Ice-load(mm)	25.4
Operational Temperature (°C)	-45 to +60

Note: The diameter of the mounting pipe is 114mm when testing.

Note: Axial Force/Side Force/Twisting Moment is at wind velocity survival rating.



FARAMOJ SAZAN ERTBATAT PARSIAN

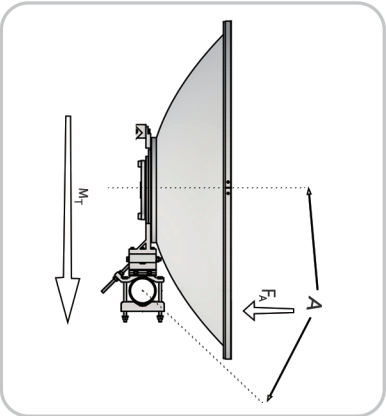
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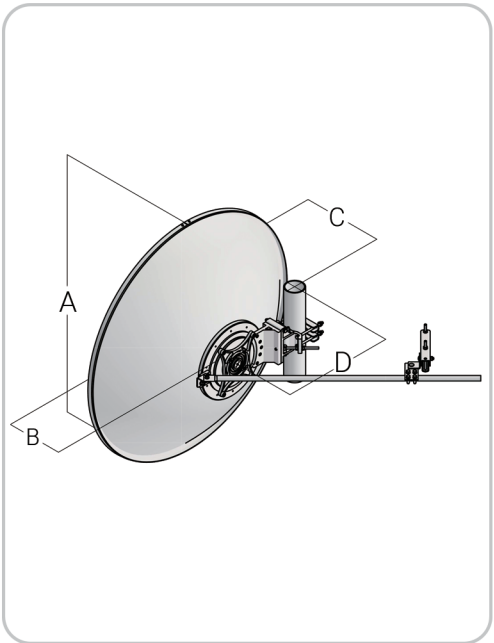
Wind Frocce Survival

Wind Forces At Wind Velocity Survival Rating

Wind Velocity Survival Rating (km/h)	250
Wind Velocity Operational (km/h)	200
Axial Force (N)	4916
Side Force (N)	2458
Twisting Moment (N-m)	1893



Packing / Dimentions Details



Packing Vs Actual Details

Gross Weight, Full Package (kg)	67.8 ± 4
Net Weight, Only Antenna (kg)	43.4 ± 1
L × W × H (mm × mm × mm)	1380 × 380 × 1550

Dimentions in mm

Antenna Size (ft/m)	3.93 (1.2)
A	1254
B	344
C	329
D	374

Quick Notes

Gain

There might be a discrepancy in gain measurements across different test sites. The measurement error should remain below 0.5 dB.

Radiation Pattern Envelope Reference (RPE)

The RPE of the antenna is produced based on the specified gain; therefore, any variation in gain will result in a corresponding deviation in the RPE. In theory, this pattern deviation should not exceed 0.5 dB.

Front-to-Back Ratio

Represents the maximum backward radiation, relative to the main lobe, within the range of $180^\circ \pm 40^\circ$. Production antennas typically do not exceed the specified values by more than 2 dB unless otherwise noted.

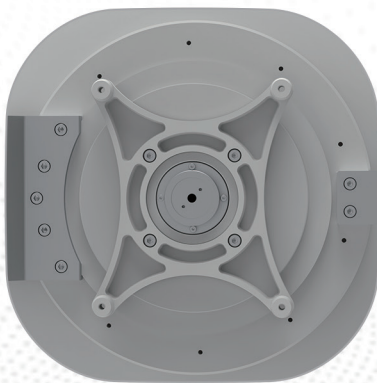
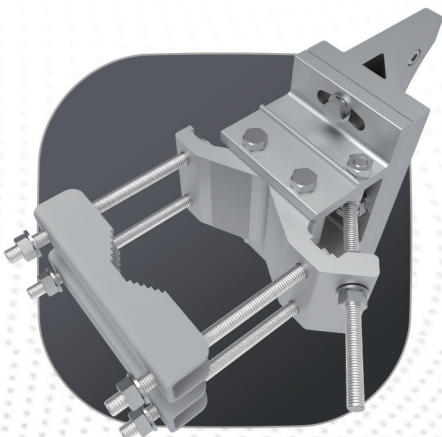
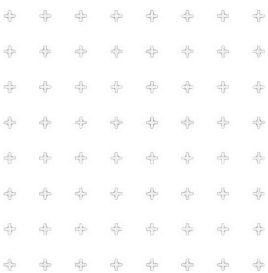
Cross Polarization Discrimination (XPD)

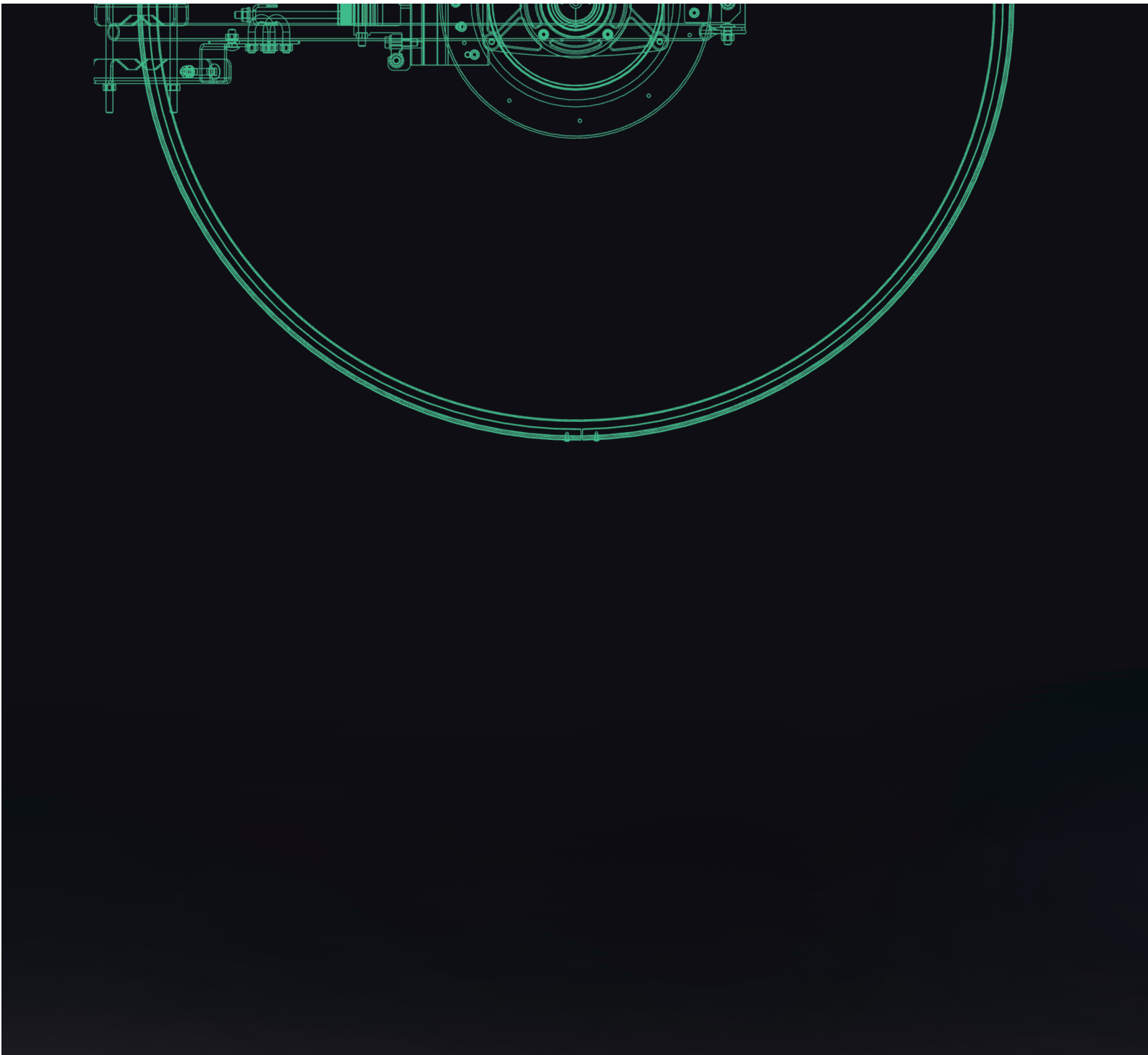
The specified 30 dB antenna XPD is verified in a professional test facility. Although both antennas exhibit 30 dB XPD in the link, the measured link XPD may decrease to as low as 24 dB under certain conditions.



Fully Compatible With Ericsson ODUs

CLASS3 MODULAR ANTENNA



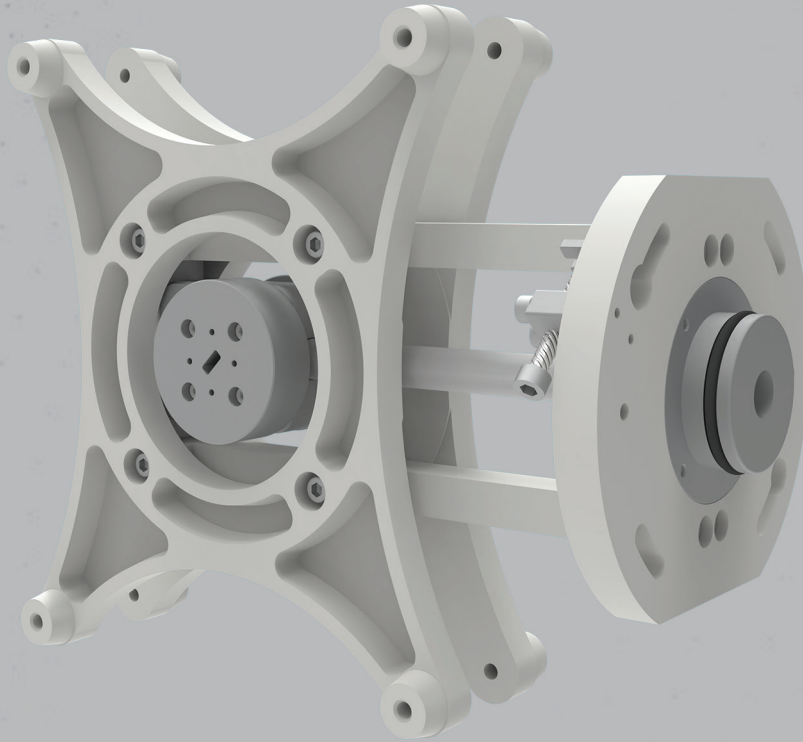
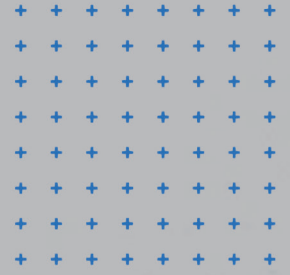


NUVEXEL

NUVEXELs OMT for **Huawei & Ericsson** ODU_s



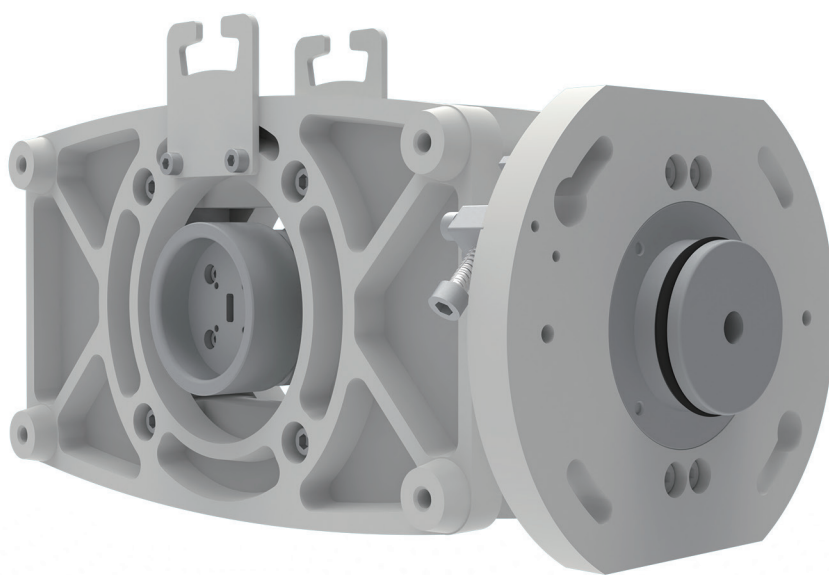
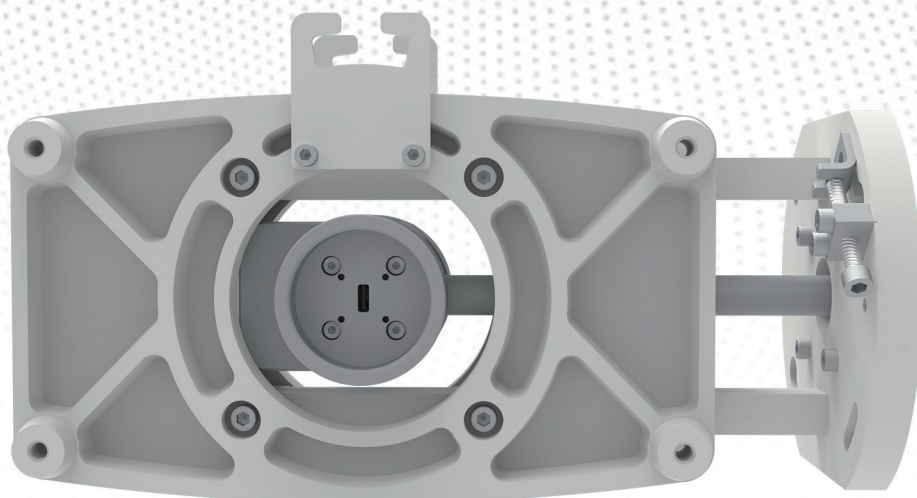
NUVEXEL DIRECT OMT_s ARE SPECIFICALLY DESIGNED FOR USE WITH BOTH HUAWEI & ERRICSSON_s LATEST ODU_s IN THE FREQUENCY RANGE OF 11 GHz TO 32 GHz.



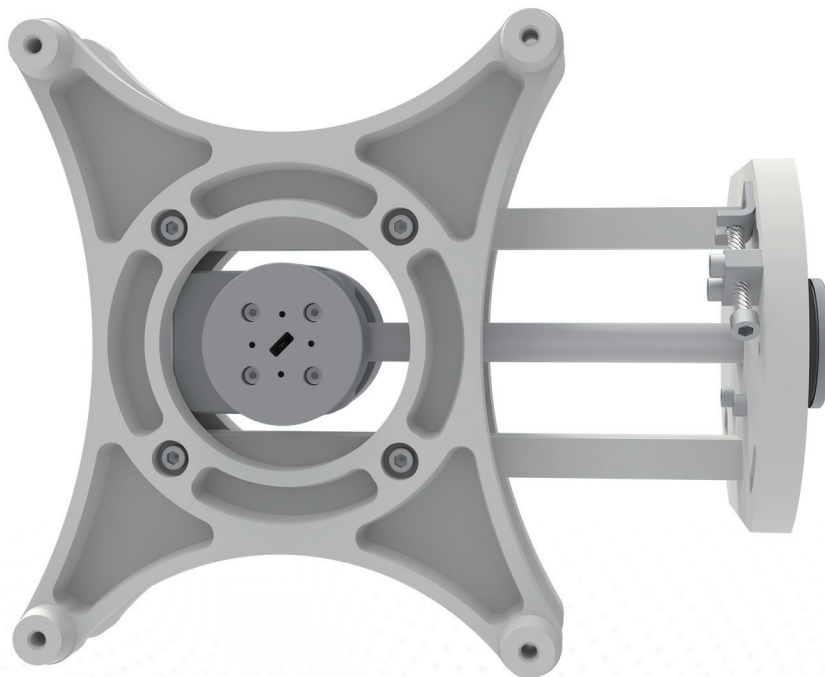
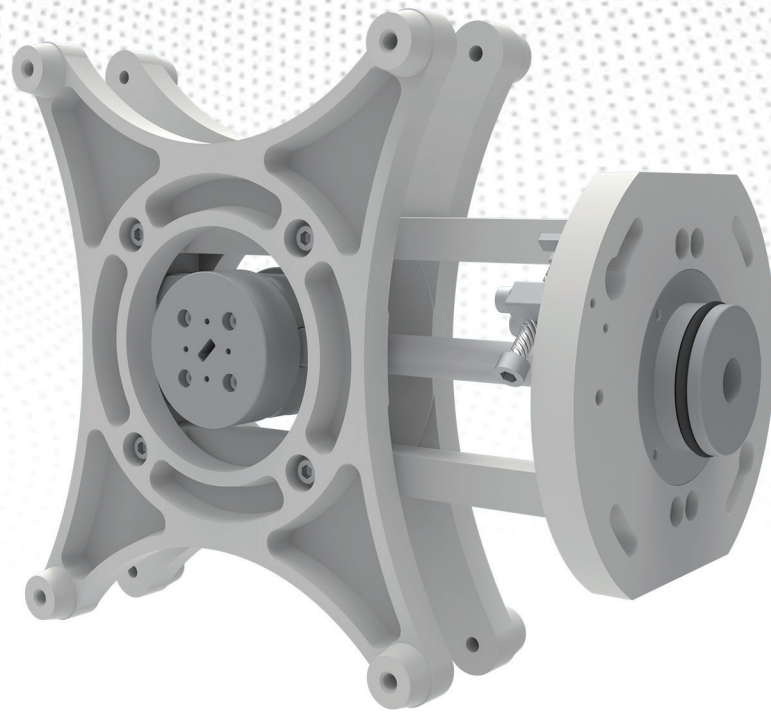
Product List

1 NVE-DCOMT-HW >

2 NVE-DCOMT-ER >



Introducing Direct OMT for hwawei ODUs



Introducing Direct OMT for ericsson ODUs

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