2024 BASE STATION ANTENNAS

EMEA CATALOG

Amphenol
ANTENNA SOLUTIONS

CONTENT

Introduction

With the densification of the cellular networks and the addition of 5G, base stations antennas are designed for various applications and come up with different characteristics, such as:

- High performance
- Sustainability
- Cost effective
- Compact size
- Low visual impact
- Add Active 5G
- Low weight
- Low wind load
- Site sharing

Thus, Amphenol Antenna Solutions has developed several families of antennas in order to address the challenges faced by the Mobile Network Operators. Being close to our customers is part of our DNA.

As a premium supplier, Amphenol has always paid maximum attention to RF performance, while making the best trade-off for mechanics, low visual impact and any contributor to the ease of installation. Since the application can be different, for instance from compact size to site sharing antennas, choosing the right antenna family is of utmost importance.

Optimize...everything

Our broad portfolio of base station antennas supports network technologies from 2G to 5G as well as 8T8R technologies. We offer:

- Multiband antennas that provide the ultimate in space efficiency and flexibility.
- Reconfigurable antennas for expanded lifespan and lower carbon footprint.
- Single-band antennas that make it easy to add a new frequency or technology to a site.
- Standalone TDD and hybrid TDD/FDD antennas that make it easy to add a TDD layer to support 5G and TDD LTE.
- Tailored beamwidth antennas for the most unique coverage requirements and applications.
- Small Size antennas that increase capacity and coverage in dense urban environments.
- Cylindrical structures for low visual impact when zoning is a challenge.

Multi Band Antennas

With our multiband base station antennas, you can support multiple frequencies and multiple technologies in a single, compact antenna that reduces space requirements, site complexity, wind loading, and total cost of ownership.

You have complete flexibility to combine 2G, 3G, 4G and 5G frequencies as needed in antennas that provide up to 28 RF ports. With this future-ready approach, you can meet today's requirements and ensure you're ready to support new frequencies when they're available without the time, cost, space and effort required to add antennas.

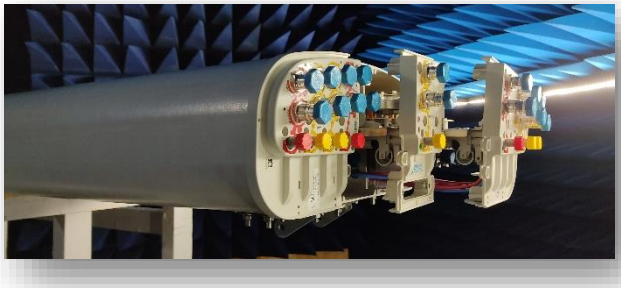
CHECK OUR MULTI BAND PRODUCTS HERE

Reconfigurable Antennas

Amphenol Antenna Solutions introduced the world first upgradeable antenna called Integra in 2021, within the NodeLine family. Since then, the modular approach of Integra has been expanded to other multiband antenna families like the TwinLine-S and the TridentLine.

Thus, when carbon footprint reduction and expanded lifespan are of importance, choosing Integra antennas help meet the objectives for sustainability.

Last but not least, the modularity enables more flexibility in the selection of future frequency bands, since modules can be replaced easily when frequency requirements evolve.



Integra

CHECK OUR INTEGRA SOLUTIONS HERE

Single-Band Antennas

With our single-band base station antennas, it's easy to introduce a new frequency or technology to a site. You don't have to replace existing antennas and you're not forced to combine technologies in cases where it doesn't make sense from a strategic, business or technical perspective.

You can deploy a frequency and technology-specific antenna with up to 8 ports that meets your exact requirements. At the same time, you can leverage our antennas' excellent performance characteristics to ensure high-quality communications.

CHECK OUR SINGLE BAND PRODUCTS HERE

Standalone TDD and Hybrid TDD/FDD Antennas

With our TDD and hybrid TDD/FDD base station antennas, you can easily and efficiently add a TDD layer to your network to support critical network technologies, such as 5G and TDD LTE, with minimal impact at sites.

For maximum flexibility, we offer three approaches to TDD antennas:

- Deploy a standalone TDD antenna that's only 1 meter (3 ft) tall.
- Combine passive TDD and FDD technologies antenna in a single antenna with an optimized footprint.
- Deploy our passive FDD antenna today, then seamlessly add active TDD technology when the time is right with no impact on antenna footprint or performance.

CHECK OUR TDD/HYBRID PRODUCTS HERE

Tailored Beamwidth Antennas

With our tailored beamwidth base station antennas, you can meet unique, location-specific coverage requirements for any application. Our comprehensive portfolio includes:

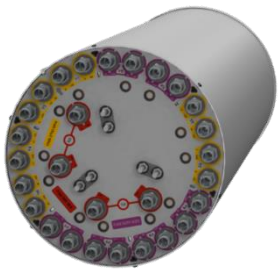
- Narrow-beam antennas with 30° to 45° horizontal beamwidth
- Dual-beam (split beam) antennas with 2 consistent-width horizontal beams
- Wide-beam antennas with 90° horizontal beamwidth
- Hybrid 65°/85° Wide beam antennas for easy replacement of legacy antennas
- Omni-beam antennas with 360° horizontal beamwidth

CHECK OUR TAILORED BEAMWIDTH PRODUCTS HERE

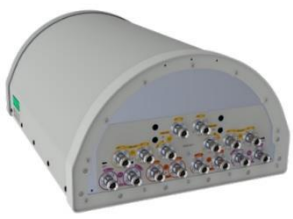
Small Size Antennas

With our small-size base station antennas, you can optimize coverage and capacity in 2G, 3G, 4G and 5G networks in dense urban environments. We offer antennas ranging in size from 30 cm to 150 cm to support the most space-constrained deployments.

Our lightweight and versatile small cell base station antennas can be used in neutral-host networks and shared-infrastructure deployments to keep costs down and address property owners' concerns about the aesthetics of large numbers of antennas.



CHECK OUR SMALL SIZE PRODUCTS HERE



Cylindrical structures

Amphenol Antenna Solutions offers a comprehensive suite of single sector, dual sector and tri-sector cylindrical solutions. These low visual impact solutions enable site acquisition or site upgrade where traditional panel solutions can't be deployed.

Amphenol CylLine suite comes with the ability to host a Massive MIMO antenna on top of a legacy panel, within a cylindrical enclosure, in single sector configuration.

Amphenol TRIO suite offers the ability to host from 1 to 3 sectors, together with an optional stackable 3-sector Massive MIMO kit, within a cylindrical enclosure.

CHECK OUR CYLINDRICAL STRUCTURES HERE

Site Solutions

Amphenol Antenna Solutions offer an extensive range of wireless infrastructure products including not only quality base station and small cell antennas, but also transmission line products such as RF jumpers, Hybrid fiber cables, AISG cables, connectors, ...

CHECK OUR SITE SOLUTONS HERE

Testing and Quality Assurance

All our base station antennas undergo rigorous testing and validation to ensure they provide the highest possible performance throughout their lifetime.

All our antennas follow the BASTA guidelines recommended by the Next Generation Mobile Network (NGMN) Alliance for base station antennas. BASTA values are available for all our antennas upon request.

Testing facilities in the U.S., France, India and China

We have outdoor testing facilities in Lannion (FR) and Amboise (FR). We also have indoor testing facilities in Conover (US), Meriden (US), Amboise (FR), Lannion (FR), Chennai (IN) and Shanghai (CH). These testing facilities are equipped with advanced technology for near and far-field measurements providing accurate results.

Our base station antennas undergo 100% production testing on:

- VSWR
- Isolation
- PIM

We welcome our customers for benchmarking testing at any of our facilities.

Adherence to key industry specifications

Our base station antennas adhere to the ETSI 300 019-2 series specifications:

- Operation: EN 300 019-2-4 and EN 300 019-1-4 : Class T4-1 E: Non-Weather Protected Locations – Extended
- Storage: EN 300 019-2-1: Class T1.2: Weather Protected Locations – not temperature controlled
- Transportation: EN 300 019-2-2: Class T2.2: Careful Transportation Class T2.3: Public Transportation

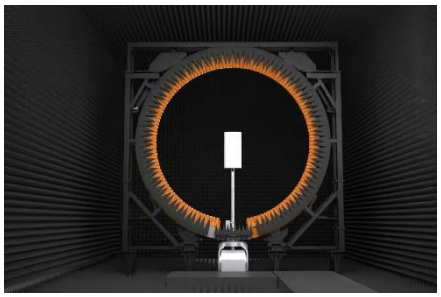
To ensure reliable performance in harsh conditions for many years, our antennas also adhere to the following environmental specifications:

- Temperature: IEC 600-68-2-14 Test Nb
- Dry heat: IEC 600-68-2-2 Test Bb
- Cold: IEC 600-68-2-1 Test Ab
- Humidity: IEC 600-68-2-78 Test Cab
- Rain: IEC 600-68-2-18 Test Rb
- Salt mist: ISO 9227:2006
- Sinusoidal vibration: IEC 600-68-2-6
- Shock and bump: IEC 600-68-2-29
- Free fall: IEC 600-68-2-31
- UV: ISO 4892-2A

Finally, we apply additional system reliability stress https, including:

- Wind load testing
- Highly accelerated life https (HALT)
- Mean operations between failure (MOBF)
- Ageing testing over the specified temperature range of each product

Testing facilities



Antenna Pattern

Climatic

Free Fall

Vibration

Salt Spray

Rain

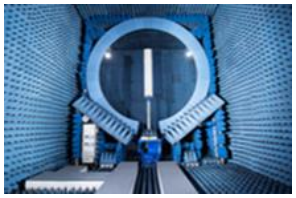
Production Https – for 100% of our antennas

VSWR & Isolation

Dynamic intermodulation Testing

Quality monitoring in production

In order to make sure all products follow our specifications, we do sampling inspections on some products based on this process:



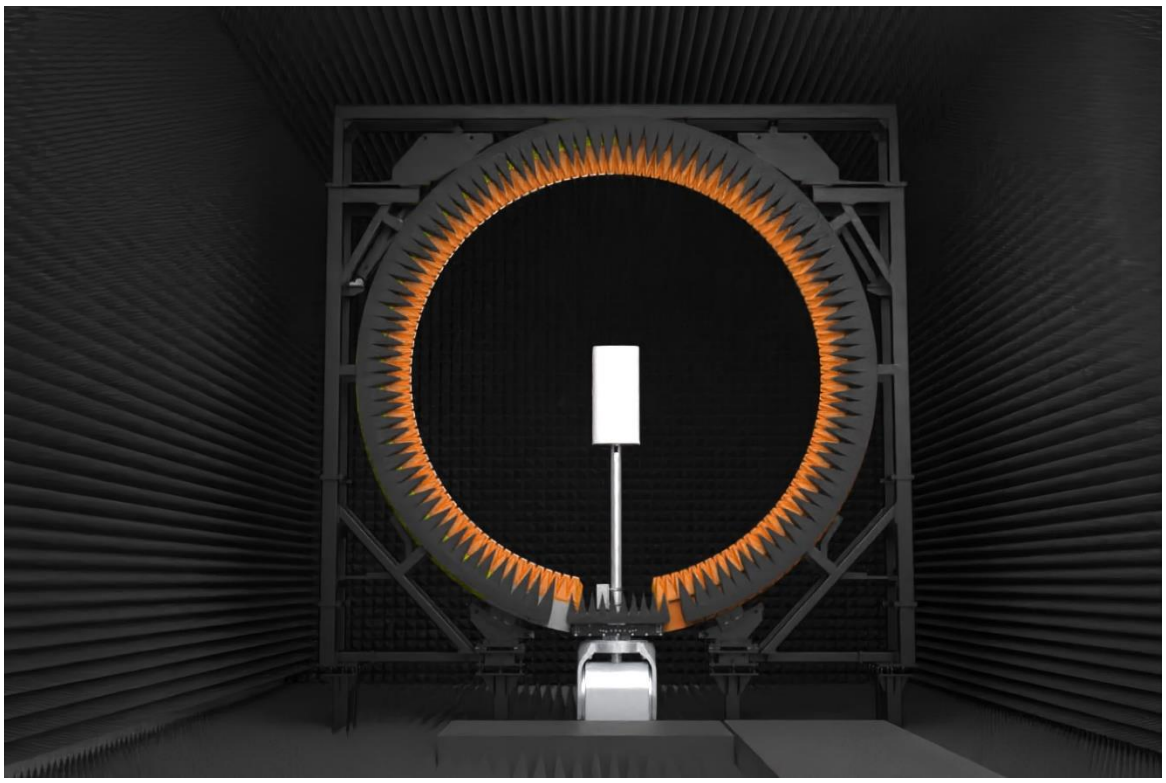
Pattern

Vibration

Climatic

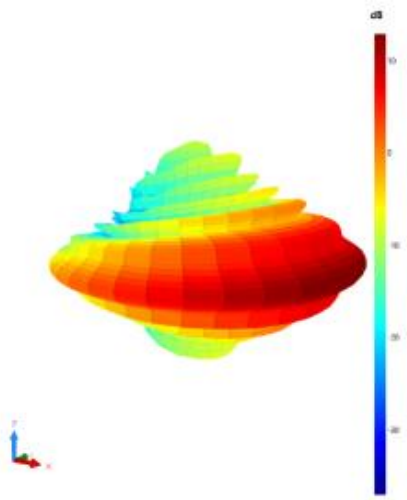
Pattern

Open RAN Lab



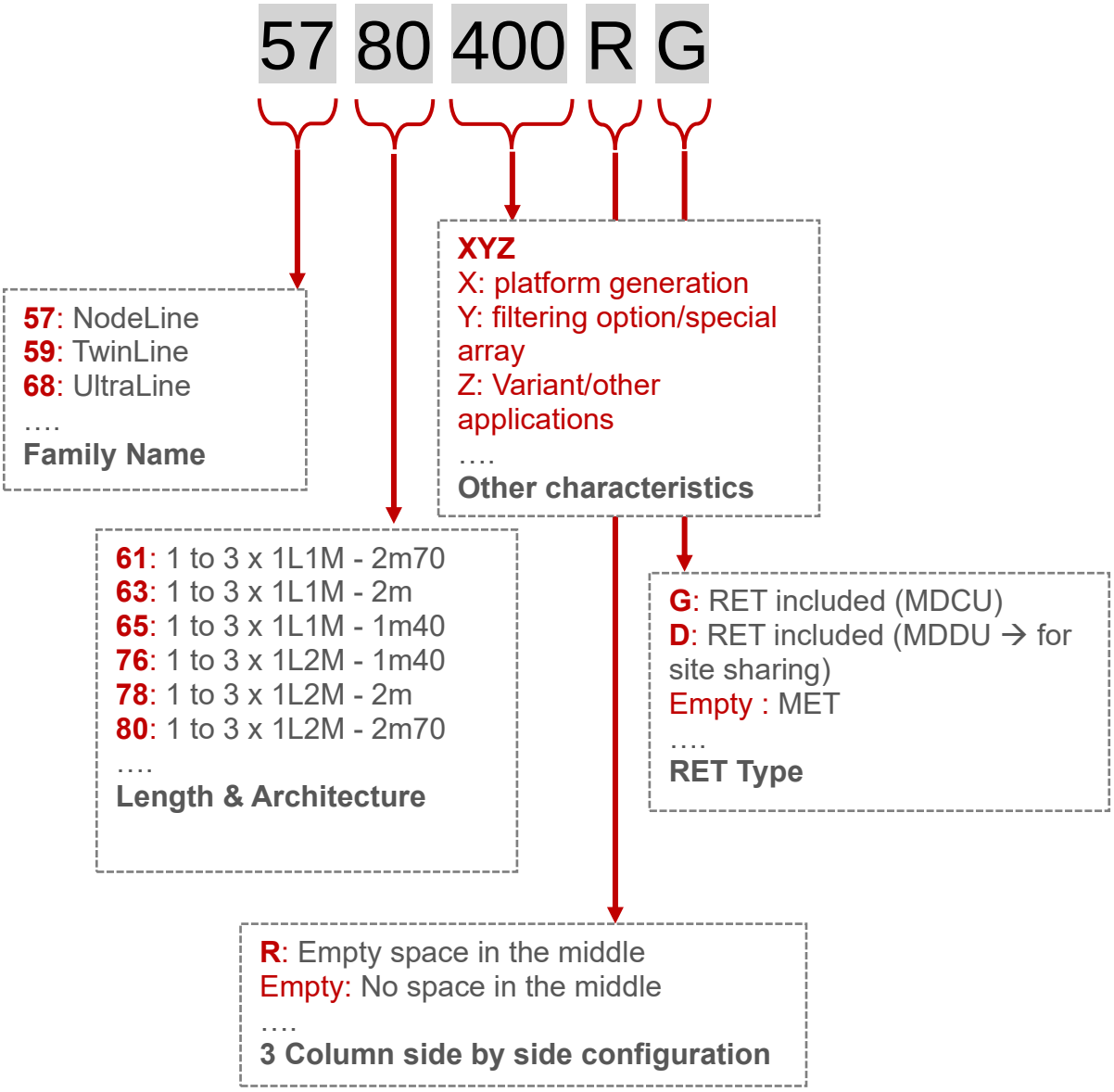
Amphenol Antennas Solutions, opened its Open RAN Lab in France. The facility, close to Paris, features a state of the art SG Evo equipment from MVG. This equipment allows our customers to retrieve the 3D radiation pattern of antennas and active antennas including beamforming, via over the air measurements. 3D radiation patterns are now key to master the distribution of radiated energy around the antenna.

Thanks to 3D measurement capability, both the radiation pattern efficiency and the energy efficiency of the antenna system can be accurately estimated.



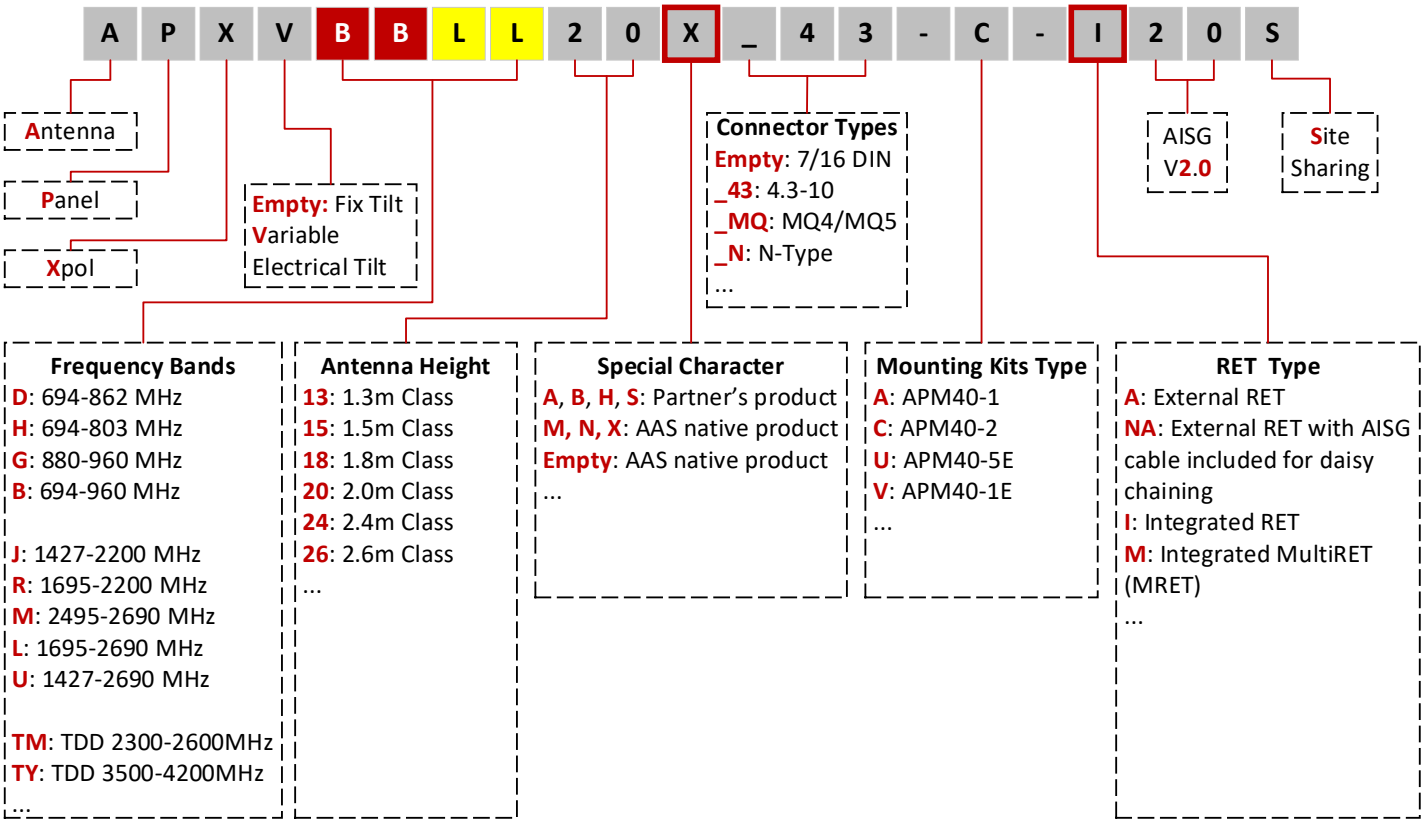
Antenna Naming Convention

Type 1



Antenna Naming Convention

Type 2



Antenna Naming Convention

Type 3

P 3 – B B U U 2 6 – I 0 N

Product Category	Product Type	
1-column low band	P	1
2 columns low band	P	2
2 columns low band and 3 columns high band side by side	P	3
2 columns low band and 4 columns high band side by side	P	4
High band Only	P	H
Hybrid FDD/TDD	F	T
Small Size Omni	S	O
Small Size Panel	S	P
Small Size hybrid beam (Omni + Panel)	S	H
Narrow Beam (below 33deg HBW)	N	B
Antenna with 33deg HBW (excluding the Twin Beam)	B	3
45deg beam	B	4
Multi-Beam (including the Twin-Beam)	M	B
Wide Beam (>65deg, <360deg)	W	B
Marco antenna, Omni directional	M	O
Pure TDD (excluding beamforming)	T	D
Standalone beamforming	B	F
Tri-sector	C	3
Special Antenna (Tetra, hybrid Tetra/LTE)	S	A

Length Code	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

RET Option	Manufacturer	Polarization	Tilt	RET Position	Site Sharing
A	AAS	-	-	-	-
B	AAS	-	-	-	-
C	AAS	-	-	-	-
D	AAS	-	-	-	-
E	AAS	-	-	-	-
F	AAS	-	-	-	-
G	AAS	-	-	-	-
H	AAS	-	-	-	-
I	AAS	X-Pol	VET	Integrated	Yes
J	AAS	X-Pol	VET	Integrated	No
K	AAS	-	-	-	-
L	AAS	-	-	-	-
M	AAS	-	-	-	-
N	ODM	X-Pol	VET	Integrated	No
O	ODM	-	-	-	-
P	ODM	-	-	-	-
Q	ODM	-	-	-	-
R	ODM	-	-	-	-
S	ODM	X-Pol	VET	Integraged	Yes
T	ODM	-	-	-	-
U	ODM	X-Pol	VET	Manual	No
V	ODM	-	-	-	-
W	ODM	-	-	-	-
X	ODM	-	-	-	-
Y	ODM	-	-	-	-
Z	ODM	-	-	-	-

Serial Number
0
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
.
.
.
X
Y
Z

Special Configure	
N	Direct Pipe

Antenna Naming Convention

Frequency Bands Table

Sub-1 GHz			
CODE	Lower Edge	Upper Edge	Unit
	from - to	from to	
A	555 - 617	746 - 894	MHz
H	690 - 698	797 - 806	MHz
D	690 - 698	862 - 862	MHz
F	690 - 698	894 - 906	MHz
B	690 - 698	960 - 960	MHz
N	790 - 862	862 - 862	MHz
E	790 - 880	960 - 960	MHz
S	806 - 817	869 - 990	MHz
C	806 - 824	894 - 894	MHz
I	824 - 862	960 - 960	MHz
G	862 - 880	960 - 960	MHz
V	555 - 617	960 - 960	MHz

1-3 GHz			
CODE	Lower Edge	Upper Edge	Unit
	from - to	from - to	
K	1400 - 1427	1500 - 1518	MHz
J	1400 - 1427	2170 - 2400	MHz
U	1400 - 1427	2690 - 2700	MHz
Q	1690 - 1710	1880 - 1880	MHz
R	1690 - 1710	2170 - 2200	MHz
L	1690 - 1710	2690 - 2700	MHz
W	1690 - 2305	2360 - 2400	MHz
P	1800 - 2010	1920 - 2025	MHz
M	2300 - 2575	2620 - 2700	MHz

> 3 GHz			
CODE	Lower Edge	Upper Edge	Unit
	from - to	from - to	
Y	3300 - 3600	3700 - 4900	MHz
Z	5000 - 5150	5800 - 7000	MHz

Antenna Color Coding

AISG Frequency Color

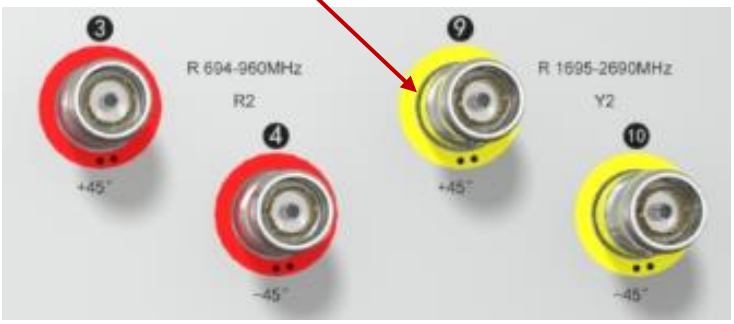
Upper Band Edge Range	RAL Code of the Colour	Band Colour	Band Character
380 MHz - 1000 MHz	RAL 3020	Red	R
1001 MHz - 1700 MHz	RAL 6029	Green	G
1701 MHz - 2300 MHz	RAL 5015	Blue	B
2301 MHz - 3000 MHz	RAL 1023	Yellow	Y
3001 MHz - 5000 MHz	RAL 4006	Purple	P
5001 MHz - 6000 MHz	RAL 2009	Orange	O

AISG Port Color – Type 1

Hexaband 12 ports Antenna APXVBBLL26H2_43-C-I20S

Color to indicate Port Frequency Band

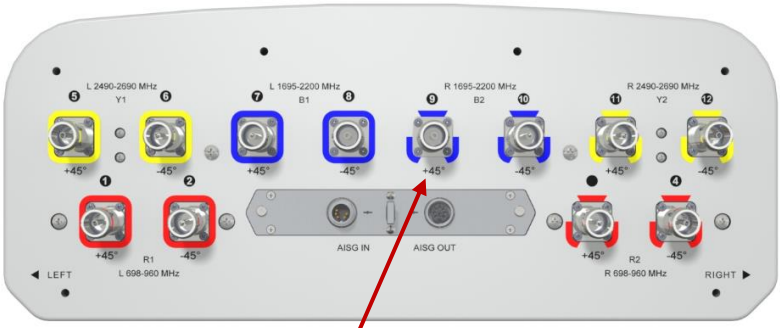
Dots to indicate the number of arrays



Antenna Color Coding

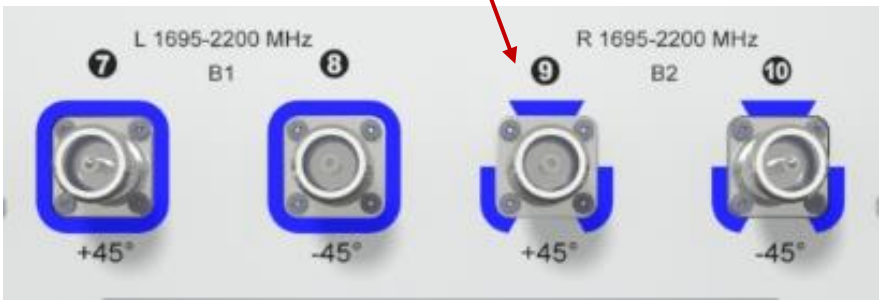
AISG Port Color – Type 2

Hexaband 12 ports Antenna P2-BBRRMM15-N0



Color to indicate Port Frequency Band

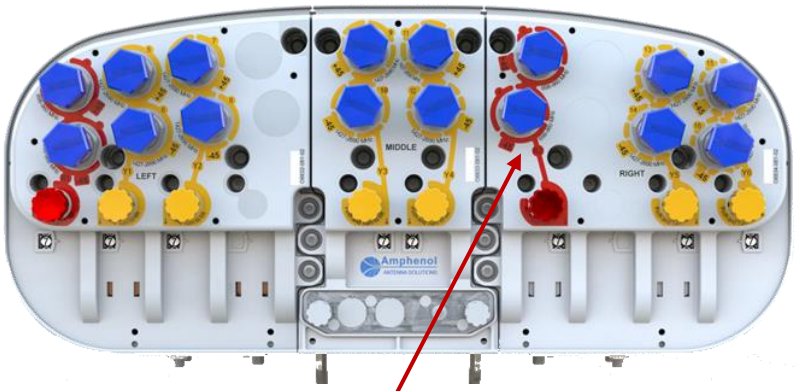
Segments to indicate the number of arrays



Antenna Color Coding

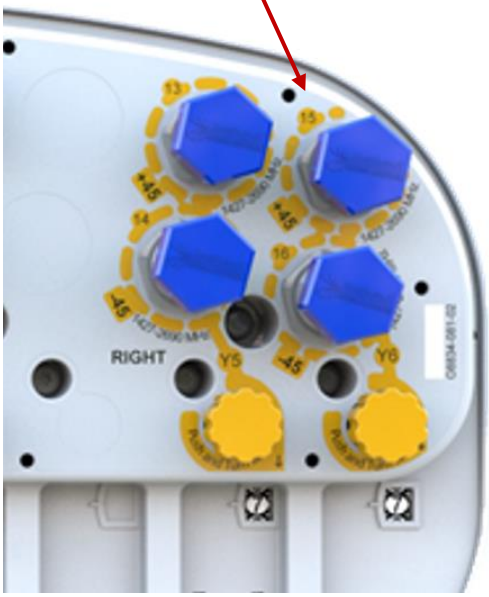
AISG Port Color – Type 3

Octaband 16 ports Antenna 5780400



Color to indicate Port Frequency Band

Segments to indicate the number of arrays



Antenna Array Configuration

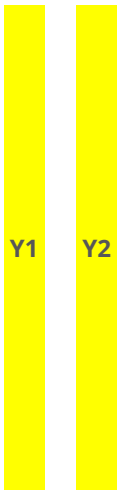
Single Band

APXVB26B
APXVB20B
APXVB15B

2 ports

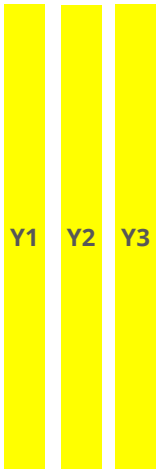
APXVL14B
APXVL20B
APXVR14B

2 ports



APXVLL13P
APXVLL14H
APXVLL15B
APXVLL15V
APXVLL19P
APXVLL21B

4 ports

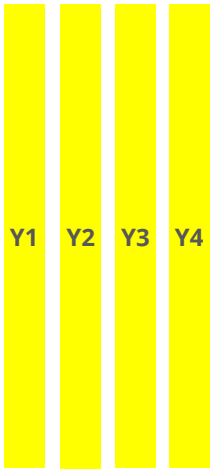


APXVLLL15B

6 ports

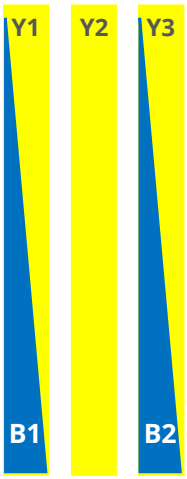
APXVRRMM15B
APXVRRMM15H

8 ports



APXVLLLL15B2
APXVLLLL21B

8 ports

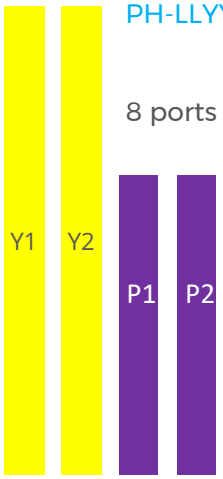


APXVLRRMM15B

10 ports

PH-YY10

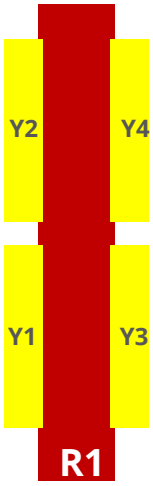
4 ports



PH-LLYY15

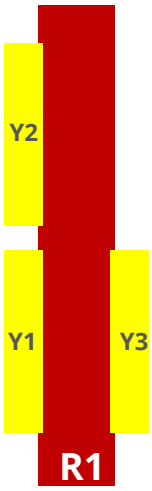
8 ports

Multi Band 1LnM Platform



APXVB4L15B
APXVB4L20B
APXVB4L26B
APXVB4L26V

10 ports

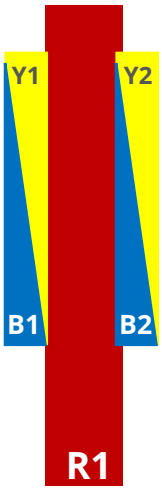


APXVB3L18B2
APXVB3L20B
APXVB3L26B

8 ports

APXVBLL15H
APXVBLL20H
APXVBLL26H
APXVBLL15B
APXVBLL18B2
APXVBLL20B
APXVBLL26B
APXVBLL26B2
P1-BUU26

6 ports



P1-BRRMM15
P1-BRRMM20

10 ports

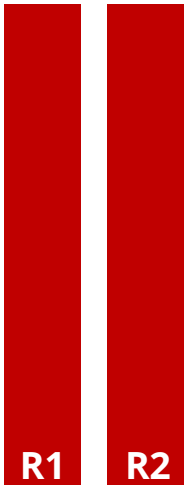
APXVBL15B
APXVBL15H
APXVBL18B2
APXVBL20B
APXVBL26B2

4 ports

P1-B3L15
APXVB3L26B2

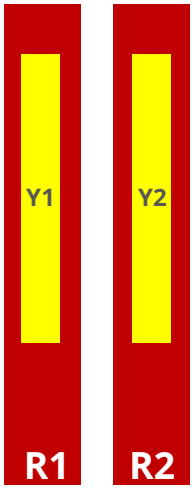
8 ports

Multi Band 2LnM Platform



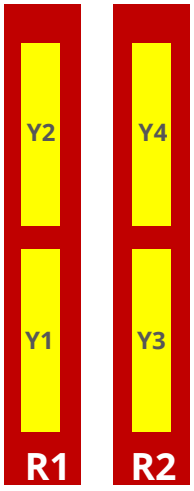
APXVBB15B
APXVBB20B
APXVBB26B
APXVBB26H2
5918300P
5720400R

4 ports



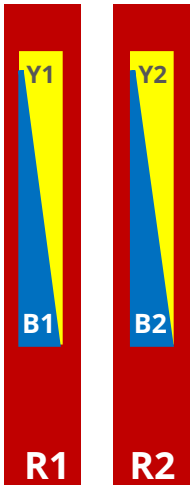
APXVBBLL15H2
APXVBBLL15B
APXVBBLL20B
APXVBBLL20H2
APXVBBLL26H2
APXVBBLL26B
P2-BBUU26
5965400P
5963400P
5961400P
5761400R
5763400R

8 ports



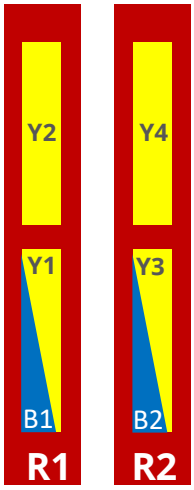
APXVBB4L15B
APXVBB4L20B
APXVBB4L26B
APXVBB4L26H2
P2-BB4U26
5980400P
5778400R
5780400R

12 ports



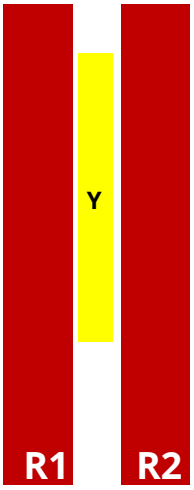
P2-BBRRMM15
5976600P
5978600P
5798400R

12 ports



5980600P
5780600R

16 ports

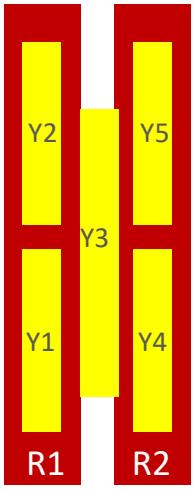


APXVBBL15H
APXVBBL20H
APXVBBL26H

6 ports

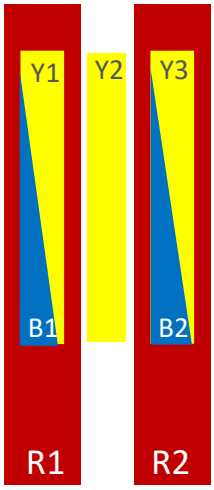
APXVBB3L15H
APXVBB3L20H2
APXVBB3L26H
5765400
5763400
5761400

10 ports



5778400
5780500

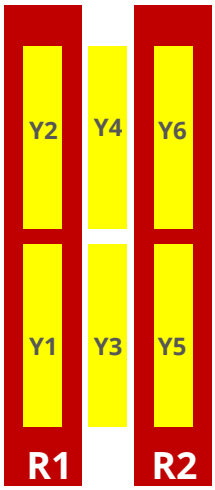
14 ports



P3-BBJJMMU20
5796400
5798400

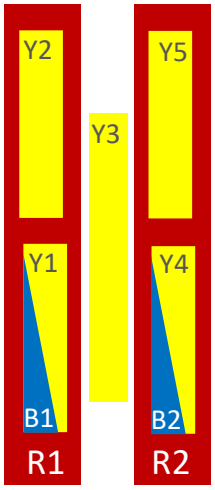
14 ports

Multi Band 2LnM Platform Continued



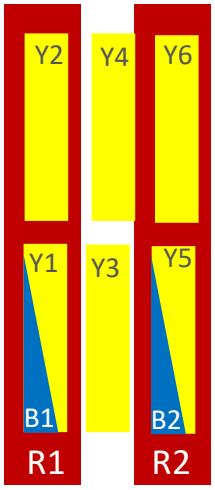
P3-BBUU4L26
5778500
5780400

16 ports



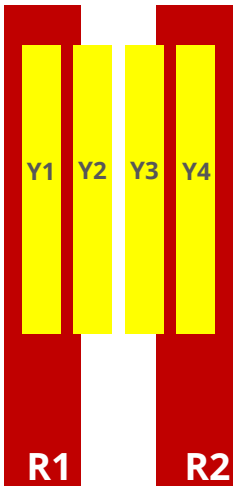
5780600

18 ports



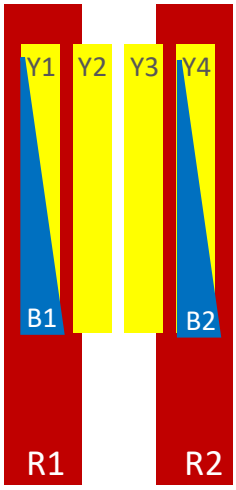
5780700

20 ports



P4-BB4L15-N0
P4-BBUULL15
P4-BBUULL20
P4-BB4L15-NB
P4-BB4L20-NB

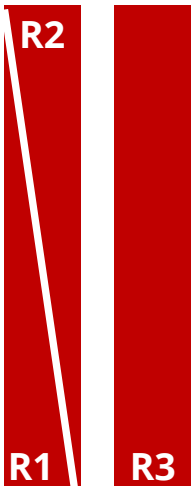
12 ports



P4-BBRRMMUU15
P4-BBRRMMUU20

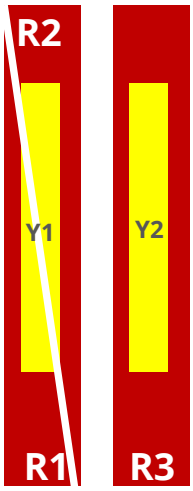
16 ports

Multi Band 3LnM Platform



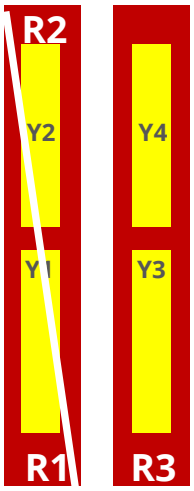
5920470P

6 ports



5961470P
5763470R

10 ports

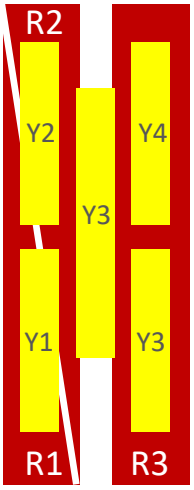


5980470P

14 ports

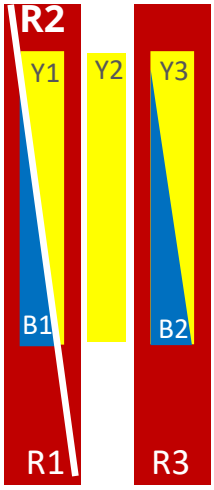
5763470

12 ports



5780470

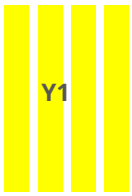
16 ports



5798470

16 ports

8T8R Platform



APXVTM15AB

8 ports

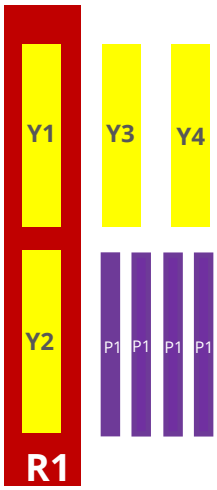
APXVTY10AB
APXV9TY10AB

8 ports

APXVTMTY15AB

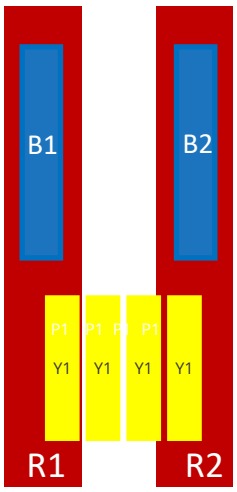
16 ports

FDD/TDD Platform



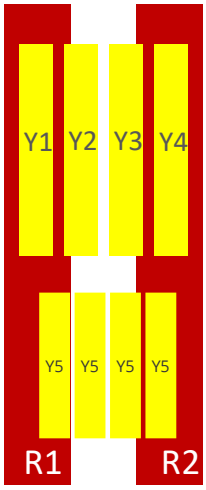
APXVB4LTY14AB
APXVB4LTY16AB

18 ports (10+8)
Connectors MQ4/MQ5



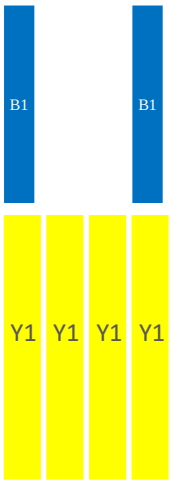
APXVHHRRTM15AB
APXVHHRRTM20AB

16 ports (8+8)
Connectors 4.3-10



FT-BB4LTM26

20 ports (12+8)
Connectors MQ4/MQ5



APXVLLTM15AB

12 ports (4+8)
Connectors 4.3-10

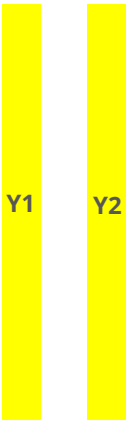
33°

APXV3B26B

2 ports

APXV3R13B

2 ports



APXV3LL15B

4 ports

APXV3BLL20

6 ports

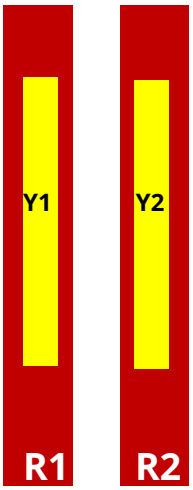
B3-BBLL26-N0

8 ports

90°

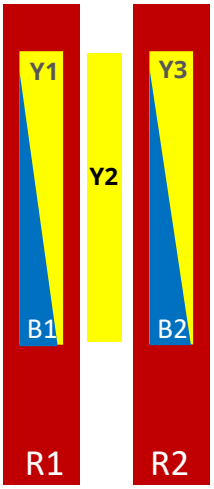
APXV18-209014
APXV18-209015

2 ports



5763485R

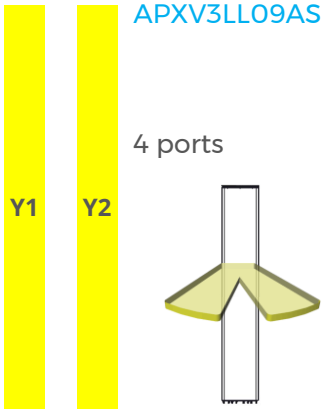
8 ports



5798485

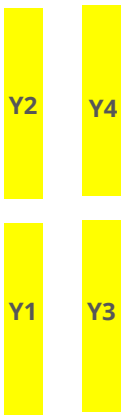
14 ports

Dual Beam



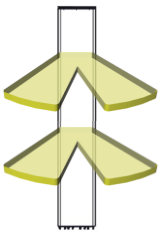
APXV3LL09AS

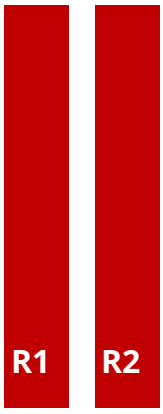
4 ports



APXV34L20AS

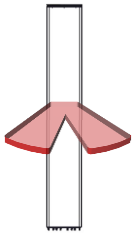
8 ports



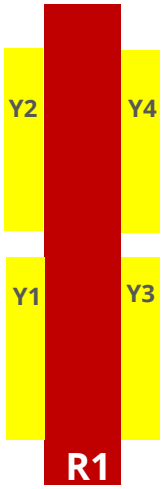


B3-BB26-N0

4 ports

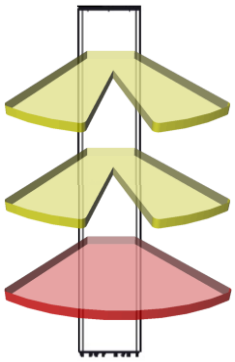


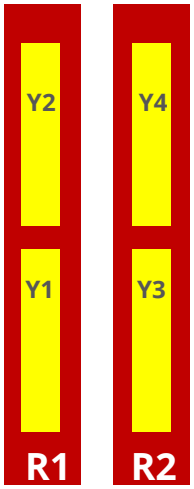
Hybrid Beam



APXVB34L26AB

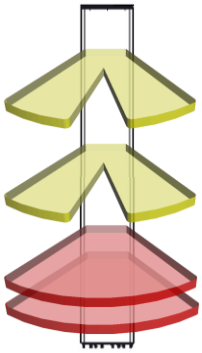
10 ports





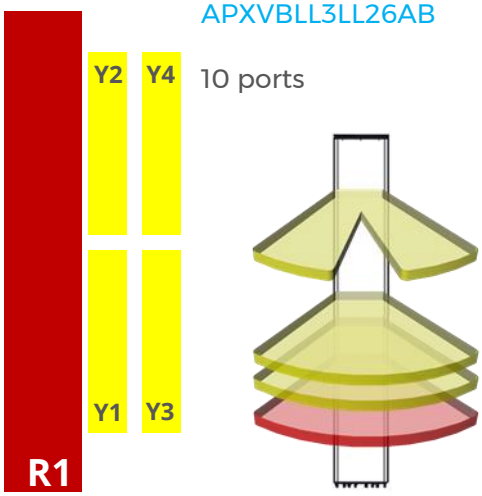
APXVBB34L20AB

12 ports



APXVBLL3LL26AB

10 ports



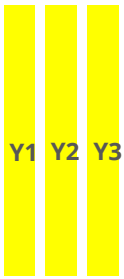
Small Size

APXVL08B

2 ports

APXVLL06
APXVLL09B

4 ports



APXVLLL08B

6 ports

APXV3LL08B

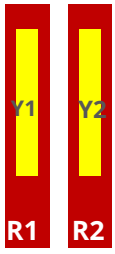
4 ports

APXBL06B

4 ports

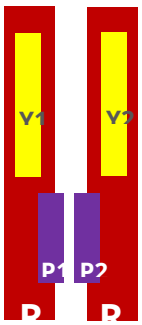
AOXVBLL06
APXVBLL09B

6 ports



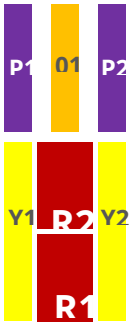
5767400R

8 ports



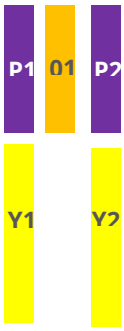
APXBBLLYY05B

12 ports



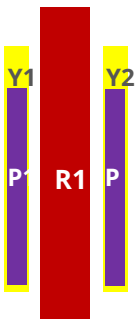
P-BBLLYYZ06-01
O-BBLLYYZ06-01

14 ports



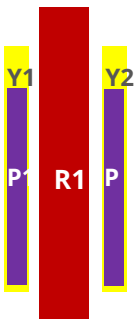
SP-LLYYZ06-F0
SO-LLYYZ06-F0

10 ports



0201-100404s

10 ports



0202-100404s

30 ports

Single Band Antenna
Low Band

2 Ports (1L)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVB15B_43-C-I20	698-960	65	15.2	2-15	2x 4.3-10 2x 7/16	1	1495 x 320 x 140	15.5
APXVB20B_43-C-I20	698-960	65	17	2-12	2x 4.3-10	1	1980 x 320 x 140	18.5
APXVB26B_43-C-I20	698-960	65	17.7	2-12	2x 4.3-10 2x 7/16	1	2550 x 320 x 140	28.5

4 Ports (2L)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBB15B_43-C-I20	698-960	65	15.7	2-15	4x 4.3-10	2	1590 x 499 x 199	24.5
APXVBB20B_43-C-I20	698-960	65	16.1	2-12	4x 4.3-10	2	1990 x 499 x 199	34
APXVBB26B_43-C-I20	694-960	65	17.4	2-12	4x 4.3-10	2	2690 x 499 x 199	38
APXVBB26H2_43-C-I20	698-960	65	16.9	0-10	4x 4.3-10	2	2498 x 469 x 205	32
5918300P	698-960	65	15.7	2-12	4x 4.3-10	2	1920 x 432 x 175	30
5720400R	698-960	65	16.5	2-12	4x 4.3-10	2	2697 x 472 x 205	42

6 Ports (1L1Lf)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5920470P	698-803 880-960 698-960	65	15.2 16.3 16.7	2-10 2-10 2-12	6x 4.3-10	3	2683 x 432 x 175	37.5

Single Band Antenna
Mid Band | High Band

2 Ports (1M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVL14B_43-C-I20	1710-2700	65	18.4	2-12	2x 4.3-10	1	1390x 160 x 115	11.5
APXVL20B_43-C-I20	1710-2700	65	19.4	0-6	2x 4.3-10	1	2000 x 160 x 115	11.5
APXVR14B_43-C-I20	1710-2180	65	17.8	2-12	2 x 4.3-10	1	1390x 160 x 115	11.5

4 Ports (2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVLL14H_43-C-I20	1710-2690	65	18.4	0-10	4x 4.3-10	2	1378 x 258 x 88	10.4
APXVLL15B_43-C-I20	1710-2690	65	18.4	2-12	4x 4.3-10	2	1498 x 320 x 123	15.3
APXVLL15V_43-C-I20	1710-2690	65	18.4	0-10	4x 4.3-10	2	1498 x 320 x 123	15.3
APXVLL19P_43-C-A20	1695-2690	65	19.4	0-12	4x 4.3-10	2	1925 x 288 x 118	18.6
APXVLL21B_43-C-I20	1710-2690	65	20	2-10	4x 4.3-10	2	2090 x 320 x 123	22.3
APXVLL13P_43-C-A20	1695-2690	65	18.3	0-12	4x 4.3-10	1	1390 x 288 x 118	13

4 Ports (2H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
PH-YY10-N0	3300-3800	65	17.9	2-12	4x 4.3-10	20	980 x 220 x 120	6.4

6 Ports (3M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVLLL15B_43-C-I20	1710-2690	65	18.9	2-12	6x 4.3-10	3	1486 x 428 x 145	21.9

8 Ports (4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVLLLL15B2_43-C-I20	1710-2690	65	18.7	2-12	8x 4.3-10	4	1490 x 499 x 199	24.1
APXVLLLL21B_43-C-I20	1710-2690	65	20.2	0-6	8x 4.3-10	4	2090 x 499 x 199	35

8 Ports (2M2H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
PH-LLYY15-N0	1710-2690 3300-3800	65	18.8 17.8	2-12 2-12	8x 4.3-10	4	1498 x 450 x 145	21

8 Ports (2Mf)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVRRMM15B_43-C-I20	1695-2200 2490-2690	65	17.4 18.0	2-12 2-12	8x 4.3-10	4	1499 x 350 x 200	20.3
APXVRRMM15H_43-C-I20	1695-2200 2490-2690	65	17.7 17.9	2-12 2-12	8 x 4.3-10	4	1398 x 278 x 168	17.5

10 Ports (1M2Mf)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVLRRMM15B_43-C-I20	1710-2200 2490-2690 1710-2690	65	17.6 18.5 19.4	2-12 2-12 2-12	10 x 4.3-10	5	1490 x 429 x 199	21.8

Multi Band Antenna 1LnM

4 Ports (1L1M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBL15B_43-C-I20	698-960 1710-2690	65	15.3 17.2	2-15 2-11	4x 4.3-10	2	1495 x 350 x 200	16.2
APXVBL15H_43-C-I20	694-960 1695-2690	65	16.0 19.0	2-14 2-12	4x 4.3-10	2 0	1498 x 398 x 158	20.5
APXVBL18B2_43-C-I20	698-960 1710-2690	65	15.3 19.1	2-15 2-12	4x 4.3-10	2	1795 x 350 x 200	18.2
APXVBL20B_43-C-I20	690-960 1695-2690	65	16.7 17.4	2-12 2-11	4x 4.3-10	2	1960 x 350 x 200	22.5
APXVBL26B2_43-C-I20	698-960 1710-2690	65	17.3 18.8	2-10 2-10	4x 4.3-10	2	2690 x 350 x 200	28.4 27.9

6 Ports (1L2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBLL15H_43-C-I20	694-960 1695-2690	65	15.6 18.3	2-14 2-12	6x 4.3-10	3	1498 x 398 x 158	20.5
APXVBLL20H_43-C-I20	694-960 1695-2690	65	16.5 18.3	2-12 2-12	6x 4.3-10	3	1998 x 378 x 158	25
APXVBLL26H_43-C-I20	690-960 1695-2690	65	17.8 18.0	2-12 2-12	6x 4.3-10	3	2498 x 378 x 158	28.7
APXVBLL15B_43-C-I20	698-960 1710-2690	65	14.7 18	2-15 2-11	6x 4.3-10	3 0	1495 x 350 x 200	18.5

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBLL18B2_43-C-I20	698-960 1695-2690	65	16.4 19.7	2-12 2-10	6x 4.3-10	3	1798 x 378 x 158	23.5
APXVBLL20B_43-C-I20	698-960 1710-2690	65	15.8 18 18	2-12 2-11 2-11	6x 4.3-10	3 0	1960 x 350 x 200	24.5
APXVBLL26B_43-C-I20	698-960 1710-2690	65	17.7 18.1	2-11 2-11	6x 4.3-10	3 0	2690 x 350 x 200	31.5
APXVBLL26B2_43-C-I20	690-960 1695-2690	65	17.7 18.7	2-12 2-10	6x 4.3-10	3	2690 x 380 x 156	28.5
P1-BUU26-N0	694-960 1427-2690	65	17.0 17.8	2-12 2-12	6x 4.3-10	3	2498 x 378 x 158	32

8 Ports (1L3M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVB3L26B_43-C-I20	690-960 1710-2690	65	17.3 17.9	2-12 2-11	8x 4.3-10	4 0	2690 x 350 x 200	32.5
APXVB3L26B2_43-C-I20	690-960 1695-2690	65	16.6 20.0	2-12 2-10	8x 4.3-10	4	2690 x 398 x 158	31.5
APXVB3L20B_43-C-I20	698-960 1710-2690	65	16.3 16.9	2-12 2-11	8x 4.3-10	4	1960 x 350 x 200	22.5
APXVB3L18B2_43-C-I20	690-960 1695-2690	65	16.0 20.4	2-12 2-10	8x 4.3-10	4 0	1798 x 398 x 158	27
P1-B3L15-N0	698-960 1695-2690	65	15.4 18.1	2-12 2-12	8x 4.3-10	4	1498 x 398 x 158	22

10 Ports (1L4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVB4L26B_43-C-I20	698-960 1710-2690	65	17.1 18.2	2-11 2-11	10x 4.3-10 10 x 7/16	5	2690 x 350 x 200	34.5
APXVB4L26V_43-C-I20	698-960 1710-2690	65	17.1 18.2	0-10 0-10	10x 4.3-10 10 x 7/16	5	2690 x 350 x 200	34.5
APXVB4L15B_43-C-I20	698-960 1710-2690	65	14.9 16.1	2-15 2-12	10x 4.3-10 10x 7/16	5 5 0	1495 x 350 x 200	20.9
APXVB4L20B_43-C-I20	698-960 1710-2690	65	16.3 17.1	2-12 2-10	10x 4.3-10 10x 7/16	5	1960 x 350 x 200	25

10 Ports (1L2Mf)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
P1-BRRMM15-N0	698-960 1695-2200 2490-2690	65	14.9 17.6 18.6	2-15 2-12 2-12	10x 4.3-10	5	1495 x 350 x 200	21
P1-BRRMM20-N0	698-960 1695-2200 2490-2690	65	17 17.7 18.4	2-12 2-12 2-12	10x 4.3-10	5	1960 x 350 x 200	27.8

Multi Band Antenna 2LnM

6 Ports (2L1M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBBL15H_43-C-I20	690-960 1695-2690	65	15.4 18.2	2-12 2-12	6x 4.3-10	3	1498 x 468 x 168	21
APXVBBL20H_43-C-I20	690-960 1695-2690	65	16.7 18.8	2-12 2-12	6x 4.3-10	3	1998 x 468 x 168	25.5
APXVBBL26H_43-C-I20	690-960 1695-2690	65	17.3 18.8	2-12 2-12	6x 4.3-10	3	2498 x 468 x 168	31

8 Ports (2L2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBBLL15B_43-C-I20	698-960 1710-2690	65	15.0 19.0	2-15 2-12	8x 4.3-10	4	1590 x 499 x 199	27
APXVBBLL20B_43-C-I20	698-960 1710-2690	65	16.7 19.0	2-12 2-12	8x 4.3-10	4	2090 x 499 x 199	36
APXVBBLL26B_43-C-I20	698-960 1710-2690	65	17.1 19.4	2-12 2-12	8x 4.3-10	4	2690 x 499 x 199	46.5
APXVBBLL15H2_43-C-I20	690-960 1695-2690	65	15.3 18.0	2-12 2-12	8x 4.3-10	4	1498 x 469 x 205	25
APXVBBLL20H2_43-C-I20	690-960 1695-2690	65	16.3 17.9	2-12 2-12	8x 4.3-10	4	1998 x 469 x 205	26
APXVBBLL26H2_43-C-I20	690-960 1695-2690	65	16.9 18.5	2-12 2-12	8x 4.3-10	4	2498 x 469 x 205	32
P2-BBUU26-I0	694-960 1427-2690	65	16.6 18.5	2-12 2-12	8x 4.3-10	4	2749 x 369 x 206	37.5
5965400P	698-960 1427-2690	65	13.5 17.0	2-12 2-12	8x 4.3-10	4	1375 x 432 x 175	29
5963400P	698-960 1427-2690	65	15.6 17.4	2-12 2-12	8x 4.3-10	4	1945 x 432 x 175	33

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5961400P	698-960 1427-2690	65	16.8 17.4	2-12 2-12	8x 4.3-10	4	2683 x 432 x 175	49
5761400R	698-960 1427-2690	65	16.5 17.7	2-12 2-12	8x 4.3-10	4	2697 x 472 x 205	50
5763400R	698-960 1427-2690	65	15.5 17.4	2-12 2-12	8x 4.3-10	4	1993 x 472 x 205	40

10 Ports (2L3M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBB3L15H_43-C-I20	690-960 1695-2690	65	15 18.1	2-12 2-12	10x 4.3-10	5	1498 x 468 x 168	24.5
APXVBB3L20H2_43-C-I20	690-960 1695-2690	65	16.7 18.8	2-12 2-12	10x 4.3-10	5	1998 x 469 x 205	26
APXVBB3L26H_43-C-I20	690-960 1695-2690	65	17.1 19.6	2-12 2-10	10x 4.3-10	5	2498 x 468 x 168	38
5765400	698-960 1427-2690	65	14.5 17.6	2-12 2-12	10x 4.3-10	5	1403 x 472 x 168	34.5
5763400	698-960 1427-2690	65	15.4 17.4	2-12 2-12	10x 4.3-10	5	1993 x 472 x 205	44
5761400	698-960 1427-2690	65	16.6 17.6	2-12 2-12	10x 4.3-10	5	2697 x 472 x 205	53

12 Ports (2L4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBB4L15B_43-C-I20	698-960 1710-2690	65	15.2 16.9	2-15 2-12	12x 4.3-10	6	1495 x 499 x 199	29.1
APXVBB4L20B_43-C-I20	698-960 1710-2690	65	16.4 16.7	2-12 2-12	12x 4.3-10	6	2100 x 499 x 199	40.5
APXVBB4L26H2_43-C-I20	690-960 1695-2690	65	17.2 18.1	2-12 2-12	12x 4.3-10	6	2750 x 469 x 205	39
APXVBB4L26B_43-C-I20	698-960 1710-2690	65	17.6 17.7	2-12 2-12	12x 4.3-10	6	2690 x 499 x 199	47.5
P2-BB4U26-I0	694-960 1427-2690	65	16.6 18.5	2-12 2-12	12x 4.3-10	6	2749 x 369 x 206	41
5980400P	698-960 1427-2690	65	16.7 17.1	2-12 2-12	12x 4.3-10	6	2683 x 432 x 175	48
P4-BB4L15-N0	694-960 1695-2690	65	14.7 17.7	2-12 2-12	12x 4.3-10	6	1498 x 498 x 257	31.2
P4-BB4L15-NB	698-960 1710-2690	65	14.8 17.5	2-15 2-12	12x 4.3-10	6	1490 x 499 x 215	29.5
P4-BB4L20-NB	698-960 1710-2690	65	15.5 17.6	2-12 2-12	12x 4.3-10	6	2000 x 499 x 215	34.3
P4-BBUULL15-S1	694-960 1427-2690 1695-2690	65	15.1 18.0 18.6	2-12 2-12 2-12	12x 4.3-10	6	1498 x 498 x 257	27
P4-BBUULL15-I0	694-960 1427-2690 1695-2690	65	15.0 18.5 18.2	2-12 2-12 2-12	12x 4.3-10	6	1500 x 430 x 245	26
P4-BBUULL20-I1	694-960 1427-2690 1695-2690	65	16.2 18.6 18.4	2-12 2-12 2-12	12x 4.3-10	6	2050 x 430 x 245	32
5778400R	698-960 1427-2690	65	15.5 16.0	2-12 2-12	12x 4.3-10	6	1993 x 472 x 205	44
5780400R	698-960 1427-2690	65	16.5 17.5	2-12 2-12	12x 4.3-10	6	2697 x 472 x 205	56

12 Ports (2L2Mf)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
P2-BBRRMM15-N0	698-960 1695-2200 2490-2690	65	15.5 18.2 18.2	2-15 2-12 2-12	12x 4.3-10	6	1590 x 498 x 197	29
5976600P	698-960 1427-2180 2490-2690	65	14.0 16.6 16.5	2-12 2-12 2-12	12x 4.3-10	6	1397 x 432 x 175	31
5978600P	698-960 1427-2180 2490-2690	65	15.4 16.8 16.8	2-12 2-12 2-12	12x 4.3-10	6	1945 x 432 x 175	39
5798400R	698-960 1427-2180 2490-2690	65	15.5 17.2 17.2	2-12 2-12 2-12	12x 4.3-10	6	1993 x 472 x 205	44

14 Ports (2L1M2Mf)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
P3-BBJJMMU20-I0	690-960 1427-2200 2490-2690 1427-2690	65	15.3 18.3 16.9 18.2	2-12 2-12 2-12 2-12	14x 4.3-10	7	2166 x 475 x 242	48
5796400	698-960 1427-2180 2300-2690 1427-2690	65	14.4 16.5 16.5 17.3	2-12 2-12 2-12 2-12	14x 4.3-10	7	1403 x 472 x 205	35
5798400	698-960 1427-2180 2490-2690 1427-2690	65	15.5 17.1 17.0 17.4	2-12 2-12 2-12 2-12	14x 4.3-10	7	1993 x 472 x 205	48

14 Ports (2L5M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5778400	698-960 1427-2690	65	15.3 17.7	2-12	14x 4.3-10	7	1993 x 472 x 205	47.5
5780500	698-960 1427-2690	65	16.6 17.6	2-12	14x 4.3-10	7	2697 x 472 x 205	59.5

16 Ports (2L6M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
P3-BBUU4L26-S0	694-960 1427-2690 1695-2690	65	16.8 18.6 18.3	2-12 2-12 2-12	16x 4.3-10	8	2750 x 469 x 205	42
5778500	698-960 1427-2690	65	15.3 16.8	2-12 2-12	16x 4.3-10	8	1993 x 472 x 205	48.5
5780400	698-960 1427-2690	65	16.5 17.5	2-12 2-12	16x 4.3-10	8	2697 x 472 x 205	62

16 Ports (2L2M2Mf)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
P4-BBRRMMUU15-S0	694-960 1695-2200 2490-2690 1427-2690	65	14.9 17.3 18.2 18.0	2-12	16x 4.3-10	8	1498 x 498 x 215	32
P4-BBRRMMUU20-S0	694-960 1695-2200 2490-2690 1427-2690	65	16.1 18.0 18.2 18.6	2-12	16x 4.3-10	8	1998 x 498 x 215	36
5980600P	698-960 1427-2180 2490-2690 1427-2690	65	16.6 16.6 16.5 17.1	2-12	16x 4.3-10	8	2683 x 432 x 175	54
5780600R	698-960 1427-2180 2490-2690 1427-2690	65	16.6 16.9 17.2 17.7	2-12	16x 4.3-10	8	2697 x 472 x 205	59

18 Ports (2L2Mf3M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5780600	698-960 1427-2180 2300-2690 1427-2690	65	16.5 16.5 16.5 17.4	2-12	18x 4.3-10	9	2697 x 472 x 205	62.5

20 Ports (2L2Mf4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5780700	698-960 1427-2180 2300-2690 1427-2690	65	16.5 16.5 16.5 17.4	2-12	20x 4.3-10	10	2697 x 472 x 205	67

Multi Band Antenna 3LnM

10 Ports (1L1Lf2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5961470P	698-803 880-960 698-960 1427-2690	65	15.2 16.3 16.9 17.6	2-12 2-12 2-12 2-12	10x 4.3-10	5	2683 x 432 x 175	43
5763470R	698-803 880-960 698-960 1427-2690	65	14.1 15.1 15.5 17.5	2-12 2-12 2-12 2-12	10x 4.3-10	5	1993 x 472 x 205	41.5

12 Ports (1L1Lf3M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5763470	698-803 880-960 698-960 1427-2690	65	14.0 15.1 15.5 17.4	2-12	12x 4.3-10	6	1993 x 472 x 205	46

14 Ports (1L1Lf4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5980470	698-803 880-960 698-960 1427-2690	65	15.3 18.3 16.9 18.2	2-10 2-10 2-12 2-12	14x 4.3-10	7	2683 x 432 x 175	50

16 Ports (1L1Lf5M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5780470	698-803 880-960 698-960 1427-2690	65	15.3 16.3 16.6 17.5	2-12 2-12 2-12 2-12	16x 4.3-10	8	2697 x 472 x 205	60

16 Ports (1L1Lf1M2Mf)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5798470	698-803 880-960 698-960 1427-2180 2490-2690 1427-2690	65	13.9 15.1 15.5 16.9 16.9 17.4	2-12	16x 4.3-10	8	1993 x 472 x 205	49

FDD and TDD Antenna

8 Ports (4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVTM15AB_MQ-C-I20	2300-2690	90 65 22	17.3 19.1 22.5	2-12	2x MQ4/MQ5	1	1550 x 320 x 145	24

8 Ports (4H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVTY10AB_43-C-I20 APXVTY10AB_MQ-C-I20	3300-3800	90 65 20	16.9 16.9 21.3	2-12	8 x 4.3-10 2x MQ4/MQ5	1	1050 x 288 x 118	10.5

Ports (4H 90°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV9TY10AB_43-C-I20 APXV9TY10AB_MQ-C-I20	3300-3800	90 65 21	16.4 17.6 21.3	2-12	8 x 4.3-10 2x MQ4/MQ5	1	1000 x 295 x 115	10.5
APXV9TY10AEB_43-C-I20	3300-4200	90 65 21	16.3 18.3 20.7	2-12	8 x 4.3-10	1	1050 x 295 x 115	12

16 Ports (4M / 4H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVTMTY15AB_MQ-C-I20	2300-2690	85 65 22	18.3 19.0 22.2	2-12	2x MQ4/MQ5	2	1550 x 499 x 199	33.2
	3300-3800	75 55 21	16.1 17.9 21.3	2-12				

12 Ports (2M + 4M TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVLLTM15AB_43-C-I20	1710-2170	65	17.5	2-12	4x 4.3-10	2	1490 x 560 x 180	28.8
	2515-2675	75 55 20	16.1 18.1 21.9	2-12	8x 4.3-10	1		

16 Ports (2L2M + 4M TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVHHRRTM15AB_43-C-I20	698-803 1710-2170	65	13.6 17.2	0-14 2-12	8x 4.3-10	4	1590 x 560 x 180	30.7
	2515-2675	68 50 20	15.3 18.0 21.3	2-12	8x N	4		
APXVHHRRTM20AB_43-C-I20	698-803 1710-2170	65	15.2 18.2	2-12 2-12	10x 4.3-10	4	2090 x 560 x 180	41
	2515-2675	65 50 20	16.6 18.0 21.3	2-12	8x N	1		

18 Ports (1L4M + 4H TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVB4LTY14AB_43MQ-C-I20	694-960 1710-2690	65	15.4 16.3	2-14 2-12	10x 4.3-10	5	1390 x 429 x 199	26.7
	3300-3800	80 65 21	15 16.2 20.4	2-12	MQ4/MQ5	1		
APXVB4LTY16AB_43-C-I20	694-960 1710-2690	65	15.3 16.1	2-14 2-12	10x 4.3-10	5	1650 x 429 x 199	28
	3300-3800	80 65 22	15.3 16.4 21.0	2-12	MQ4/MQ5	1		

20 Ports (2L4M + 4H TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
FT-BB4LTM26-N0*	694-960 1710-2690	65	16.4 17.5	2-12 2-12	12x 4.3-10	6	2690 x 499 x 199	47.5
	2300-2690	80 65 25	15.6 15.4 18.8	2-12	MQ4/MQ5	1		

* Please contact Amphenol Antenna Solutions Technical Support for more information on this product

Special Beam Antenna

2 Ports (1L 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV3B26B_43-C-I20	698-960	33	20.9	2-12	2x 4.3-10	1	2530 x 565 x 145	31.2

2 Ports (1M 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV3R13B_43-H	1710-2170	33	19.4	0-10	2x 4.3-10	1	1200 x 290 x 139	15

4 Ports (2M 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV3LL15B_43-C-I20	1710-2690	33	22.1	2-12	4x 4.3-10	2	1498 x 499 x 199	26

6 Ports (1L2M 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV3BLL20B_43-C-I20	698-960 1710-2690	33	19.4 18.4	2-12	6x 4.3-10	2	2080 x 565 x 145	44

8 Ports (2L2M 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
B3-BBLL26-N0	698-960 1710-2690	33	17.3 20.3	2-10	8x 4.3-10	4	2690 x 555 x 155	44

2 Ports (1M 90°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV18-209014-C-A20	1710-2170	90	16.5	0-10	2 x 7/16	1	1349 x 169 x 80	8.5
APXV18-209015-C-A20	1710-2170	90	17.9	0-10	2 x 7/16	1	1850 x 169 x 80	11.5

8 Ports (2L 2M 65/85°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5763485R	698-960 698-960 1427-2690 1427-2690	65 65 65 85	15.2 15.1 18.5 16.5	2-12	8 x 4.3-10	4	1993 x 472 x 205	42

14 Ports (2L 1M 2Mf 65/85°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5798485	698-960 1427-2180 2490-2690 1427-2690	65 85 75 65	15.2 16.4 16.1 18.4	2-12	14 x 4.3-10	7	1993 x 472 x 205	52

4 Ports (2L DB 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
B3-BB26-N0*	694-960	33	19	2-12	4x 4.3-10	2	2690 x 585 x 155	31

4 Ports (2M DB 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV3LL09AS_43-C-I20	1710-2170	33	19	2-12	4x 4.3-10	2	920 x 396 x 160	16

8 Ports (4M DB 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV34L20AS_43-C-I20	1710-2690	33	18.8	2-12	8x 4.3-10	4	2000 x 396 x 160	25
APXV34L24AV_43-C-I20	1710-2690	33	20.3	2-12	8x 4.3-10	4	2480 x 396 x 160	32

10 Ports (1L+4M DB 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVB34L26AB_43-C-I20	698-960 1710-2690	65 33	17.1 19.7	2-12	10x 4.3-10	5	2690 x 396 x 190	39.5

10 Ports (1L2M + 2M DB 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBLL3LL26AB_43-C-I20	698-960 1710-2690 1710-2690	65 65 33	16.8 18.0 19.2	2-12 2-12 2-12	10x 4.3-10	5	2690 x 396 x 190	39.5

12 Ports (2L + 4M DB 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVBB34L20AB_43-C-I20	698-960 1710-2690	65 33	14.8 18.7	2-12 2-12	12x 4.3-10	6	2090 x 498 x 197	37

Small Size Antenna

2 Ports (1M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVL08B_43-C-I20	1710-2690	65	16.5	2-12	2x 4.3-10	1	800 x 160 x 115	5.1

4 Ports (1L1M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXBL06B_43-CT5	698-960 1710-2690	65	12.2 15.3	Fixed 5	4 x 4.3-10	0	620 x 350 x 200	8

4 Ports (2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVLL09B_43-C-I20	1710-2690	65	16.1	2-12	4 x 4.3-10	2	850 x 320 x 123	10
APXVLL06-C-A20	1695-2690	65	15	5-18	4 x 7/16	1	609 x 288 x 118	6

4 Ports (2M 33°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXV3LL08B_43-C-I20	1710-2690	33	16.2	2-11	4 x 4.3-10	2	750 x 320 x 123	8.3

6 Ports (3M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXVLLL08B_43-C-A20	1710-2690	65	13.2	2-14	6 x 4.3-10	3	745 x 320 x 123	8.1

6 Ports (1L2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
AOXVBLL06_43-A-A20	698-960 1695-2690	360	6.4 9.7	Fixed 0 5-18	6 x 4.3-10	1	564 x 380 x 380	11.8
APXVBLL09B_43-C-I20	698-960 1710-2690	65	13.1 16.4	2-15 2-12	6 x 4.3-10	3	980 x 350 x 200	16.2

8 Ports (2L2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
5767400R	698-960 1427-2690	65	11.4 15.4	2-12 2-12	8 x 4.3-10	4	945 x 472 x 205	24

10 Ports (1L2M2H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
0201-100404s	698-960 1695-2690 3300-3800	360°	9.9 13.8 11.8	Fixed 10 Fixed 04 Fixed 04	10 x 4.3-10	0	1496 x 371	32

10 Ports (2M3H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
SO-LLYYZ06-F0	1695-2690 3300-4200 5150-5925	360	10.5 7.5 5.6	Fixed 5 Fixed 5 Fixed 0	10 x 4.3-10	0	609 x 332 x 332	10.8
SP-LLYYZ06-F0	1695-2690 3300-4200 5150-5925	65	14.9 11.7 5.6	Fixed 5 Fixed 5 Fixed 0	10 x 4.3-10	0	609 x 283 x 181	5.2

12 Ports (2L2M2H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
APXBBLLYY05B_43-CT2	698-960 1710-2690 3300-3800	65	11.0 12.5 12.3	Fixed 2	12 x 4.3-10	0	590 x 499 x 199	9.8

14 Ports (2L2M3H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
O-BBLLYYZ06-01	694-960 1695-2690 3300-4200 5150-5925	360	3.8 10.1 7.2 5.9	Fixed 0	14 x 4.3-10	0	609 x 355 x 355	11.3
P-BBLLYYZ06-01	694-960 1695-2690 3300-4200 5150-5925	65	7.5 14.0 10.6 5.4	Fixed 0	14 x 4.3-10	0	609 x 340 x 200	7

30 Ports (3L6M6H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimensions (mm)	Weight (kg)
0202-100404s	698-960 1695-2690 3300-3800	360	14.8 18.6 16.3	Fixed 10 Fixed 04 Fixed 04	30 x 4.3-10	0	1496 x 371	34

In addition to these products, we can offer an extensive range of medium cell canister antennas capable of covering any need for adding capacity to your macro site network. Our quality portfolio covers anything from simple short range 2 port canisters, up to 32 ports / xx km range antennas. **CHECK OUT MORE OPTIONS HERE**

Site Solutions

Jumper Cable Assemblies

Amphenol's premium Jumper Cable options are designed for outdoor applications under extreme conditions with high flexibility and small bending diameters. Cable assemblies are available in a variety of lengths and connector combinations and are waterproof per the IP68 water immersion testing standard.

Connectors & Adaptators

Amphenol offers a multitude of products for wireless infrastructure. Our fast fitting, precision grade RF Connectors & Adaptors are available in 4.3/10, 7/16-DIN and N-Type with male and female interfaces. All are suitable for both copper and aluminum cable assemblies.

AISG Cable

Amphenol Antenna Solutions control cables are compliant to AISG standards and are offered in many different lengths.

Hybrid Fiber Cable

Save installation time and costs with Amphenol's Hybrid Cables. Hybrid Cables simplify tower cabling by providing power and optical connectivity in a single cable. For even faster installation, request factory-terminated assemblies with Amphenol connectors. Custom configurations of conductor counts, cable types or shielding are available with fast-turn delivery.

Other site equipment

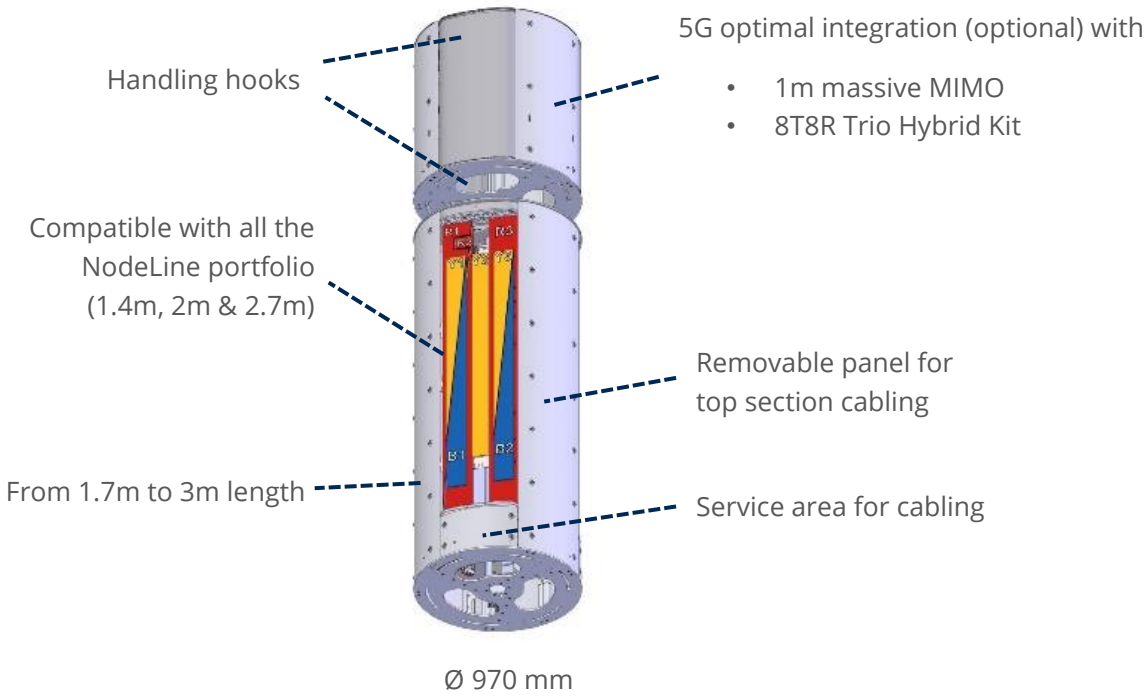
Our Cabinets are designed specifically to protect high density installations of network equipment in outdoor environments and are ideal for wireless, wireline, and utility and applications.

Amphenol Antenna Solutions can also provide more products from the top of the tower to the base station. Please contact the European Team: **sales@amphenol-antennas.com**

Concealed Solutions

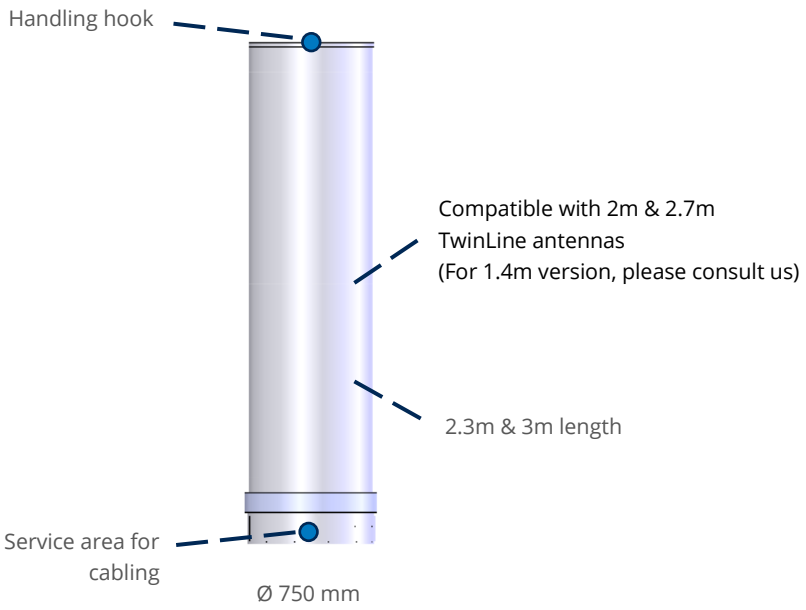
NodeLine TRIO™

Up to three NodeLine antennas inside a low visual impact cylindrical enclosure.
Discreetly deployed as mast head, roof-top vents, ...



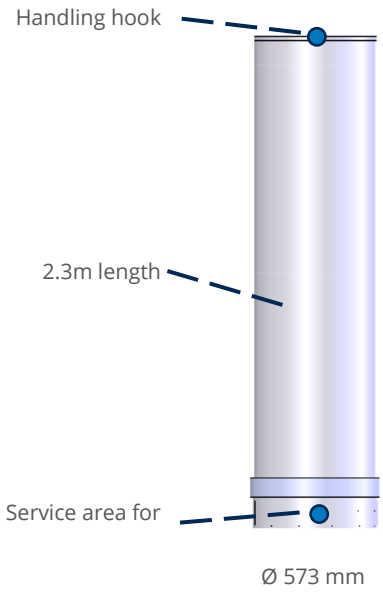
TwinLine TRIO™

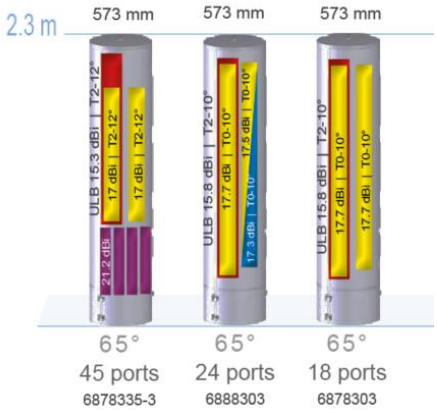
Up to three TwinLine antennas inside a small, low visual impact cylindrical enclosure.
Discreetly deployed as flag poles, roof-top vents, street lamps, telephone poles, ...



UltraLine TRIO™

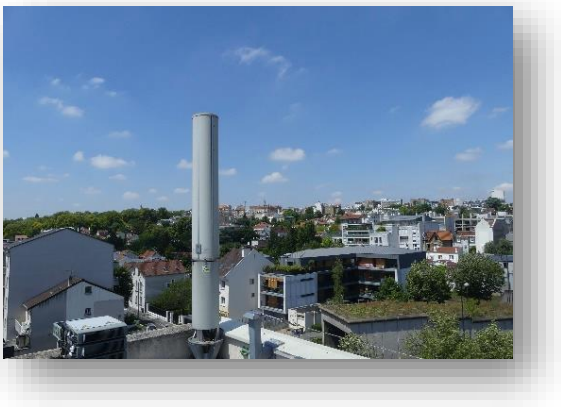
Up to three UltraLine antennas inside a small, low visual impact cylindrical enclosure.
Discreetly deployed as flag poles, roof-top vents, street lamps, telephone poles, ...

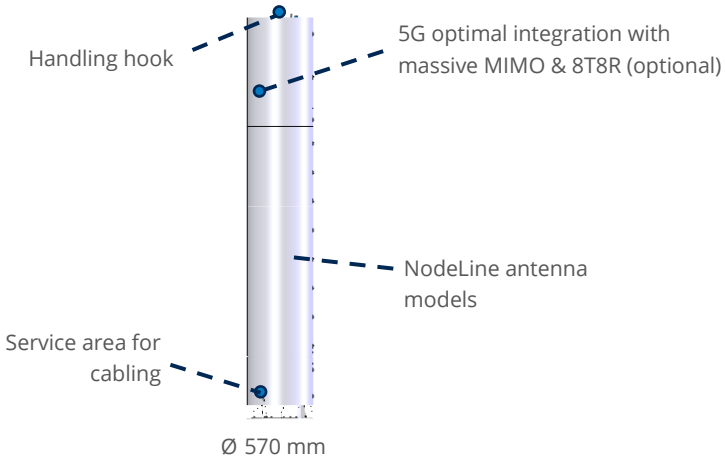




CylLine Antennas

Single sector NodeLine antenna inside a cylindrical, low visual impact enclosure.
Discreetly deployed as flag poles, roof-top vents, street lamps, telephone poles, ...





All In One Solution

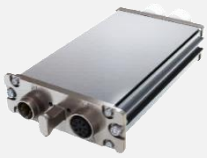
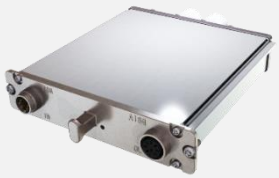
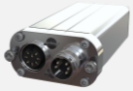
Street level solution including the medium cell antenna, jumpers, mounting system, mast & cabinet. This turnkey solution is a good opportunity to complement your coverage and boost your network capacity easily & quickly.

Compatible with pseudo omni & tri-sector penta band antennas covering both 4G & 5G frequencies.

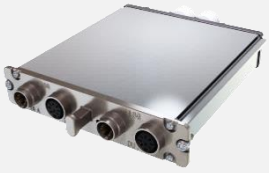
Interested to know more about the antenna, mast or cabinet characteristics? Please contact the European Team: **sales@amphenol-antennas.com**

Accessories

RET Single Primary

Model Family	Products	
ACU-I20-H12A* ACU-I20-H12B* ACU-I20-H12C* ACU-I20-H12I* ACU-I20-H12J*		
ACU-I20-B1* ACU-I20-B2* ACU-I20-B3* ACU-I20-B4* ACU-I20-B5* ACU-I20-B6* ACU-I20-B7* ACU-I20-B8*		
MDCU		

RET Dual Primary

Model Family	Products	
ACU-X20* ACU-X20H*		
ACU-X20-B*		
MDDU		

Legacy RET AAS

Part number starting with a number (ex: 57XXX, 59XXX, ...)

RET Antenna configuration files Click here

RET System Field Guide Click here

Legacy RET ex RFS

Part number starting with a letter (ex: APXXX, P4XXX, ...)

RET Antenna configuration files : Click here

RET Maintenance Guide : Click here

Network Element Manager NEM-ALD-W User's Manual : Click here

NEM-ALD-W is designed to discover any device connected to an Antenna Line Device (ALD) network. It is compliant with the 3GPP and AISG 2.0 protocols.

* Please contact Amphenol Antenna Solutions Technical Support for more information on this product

Mounting Kits

Model Family	Products
APM40	APM40
	APM40-5E
APM50-B	APM50-B1
	APM50-B2
	APM50-B3
	APM50-BH
APM50-H	APM50-H1
	APM50-H2
	APM50-HS
TwinLine & UltraLine	0900181/00 (for pole Ø48 to Ø115 mm) 0900182/00 (for pole Ø70 to Ø150 mm)
NodeLine	08464 (for pole Ø48 to Ø115 mm) 08465 (for pole Ø70 to Ø150 mm)
Mechanical Tilt	0900397/00 (0° to 10°)

About us

Amphenol has **acquired** the global Base Station Antenna business of RFS since May 15th 2023. We welcome all existing RFS base station antenna customers to Amphenol Antenna Solutions and ensure that we will honor existing agreements in regards to deliveries and product availability.

Amphenol Antenna Solutions is a global premium **antenna solution provider** dedicated to the single objective of designing and manufacturing high performance antennas.

We are customer-centric antenna company that **partner** with our customers to develop **innovative and tailored** solutions, that secures optimal coverage and capacity under all circumstances. We are **independent** from any RAN vendor, but work with them all including vRAN vendors to create customized antenna solutions – this gives us a unique position in the preparation for Open RAN future.

With manufacturing and R&D team in Europe, Asia and America we offer local support to our customer – **Across the world. Around the corner.**

Europe Middle East Africa – Asia Pacific
Technical support
techsupport@amphenol-antennas.com

BASE STATION ANTENNAS
EMEA CATALOG

Amphenol
ANTENNA SOLUTIONS