



BASE STATION ANTENNAS & FILTERS

ANTENNAS & FILTERS FOR BUSINESS AND MISSION CRITICAL USE

For Critical communication you need quality antennas on the mobile terminal and for the base stations in your system.

Wireless communication is increasingly becoming not only a reliable voice medium, but also essential for data and video to support the mission critical decisions.

The base station antennas are designed with different gain for special applications and cover all use (Consumer, Short-range industrial or Professional/Business-Critical applications or Public Safety/Mission-Critical applications).

Airband / TETRA / P25 / PMR / DMR / outdoor / LTE800 / Wideband / High Power



HIGH POWER BASE STATION ANTENNAS

Unity Gain Omni-Directional

HPBASE001(VHF) / HPBASE004(UHF)

High power base station antennas for 150 MHz or 450 MHz with integrated multipurpose mounting bracket comes with a generous bandwidth which reduces the need for multiple antennas both in stock and on installation sites.

Frequency	VHF: 112 – 178 MHz / UHF 380 – 530 MHz
Power	500 Watt
Mounting Type	Fixed Tube Mounting Bracket. Stainless Steel Mounting Hardware included.
Mounting Place	On vertical or horizontal mast tube (Ø 30 – 60 mm)
Connector	N-female
Ingress protection	IP66
Survival wind speed	55 m/s (200km/h)
Operating temperature	-55C to +70C (IEC 60068-2-1, IEC 60068-2-2)



Model	Frequency (MHz)	GAIN dBd (dBi)	Height (mm)	Item no.
HPBASE01-A - in Carton tube	112-129	0 (2,15)	1855	25001-012A
HPBASE01-B - in Carton tube	118-137	0 (2,15)	1518	25001-012B
HPBASE01-C - in Carton tube	133-151	0 (2,15)	1575	25001-012C
HPBASE01-D - in Carton tube	144-170	0 (2,15)	1445	25001-012D
HPBASE01-E - in Carton tube	153-178	0 (2,15)	1425	25001-012E
HPBASE004-A - in Carton tube	380-445	0 (2,15)	1032	26004-012A
HPBASE004-B - in Carton tube	399-476	0 (2,15)	1005	26004-012B
HPBASE004-C - in Carton tube	430-530	0 (2,15)	947	26004-012C



DUPLEX FILTER VHF

VHF 50-Watt Duplexer 6-Cavity

DXF150 (VHF)

DXF150 is a 6-cavity VHF 150 MHz duplexer for duplex transceivers. The duplexer is a compact unit intended for transceiver equipment.
50 Watts power handling in a compact mobile size.

Frequency	VHF: 138 – 175 MHz (L: 138 – 156 MHz / H: 152 – 175 MHz)
Spacing	L: 4-6 MHz / H: 8-10 MHz
Power	50 Watt
Isolation (suppression)	Single CH $\geq$ 80 dB / Multi CH $\geq$ 60 dB
Connector	N-female
Ingress protection	IP66
Dimensions	220 x 154 x 32 mm
Weight	1.1 kg
Operating temperature	-30C to +60C
Color	Black (matte)

Model	Frequency (MHz)	Spacing (MHz)	Ordering	Item no.
DXF150L	138-156 MHz	4-6 MHz	Not tuned	51001-003
DXF150L-x	138-156 MHz	4-6 MHz	factory tuned	51001-003X
DXF150H	152-175 MHz	8-10 MHz	Not tuned	51006-003
DXF150H-x	152-175 MHz	8-10 MHz	factory tuned	51006-003X



VHF 150 MHz OMNI-BASE ANTENNAS (2–5 dBi)

VHF Omni-Directional – Integrated Fixed bracket

BASE001/BASE301

VHF 150 MHz base station antennas with integrated multipurpose mounting bracket comes with a generous bandwidth which reduces the need for multiple antennas both in stock and on installation sites.

Frequency	118 – 225 MHz
Power	150 Watt
Mounting Type	Fixed Tube Mounting Bracket. Stainless Steel Mounting Hardware included.
Mounting Place	On vertical or horizontal mast tube (Ø 30 – 60 mm)
Connector	N-female
Ingress protection	IP66
Survival wind speed	55 m/s (200km/h)
Operating temperature	-55C to +70C (IEC 60068-2-1, IEC 60068-2-2)

Model	Frequency (MHz)	Gain dBd (dBi)	Length (mm)	Item no.
BASE001-A - in Carton tube	118-137	0 (2,15)	1500	22010-004A
BASE001-B - in Carton tube	128-144	0 (2,15)	1400	22010-004B
BASE001-C - in Carton tube	144-163	0 (2,15)	1400	22010-004C
BASE001-D - in Carton tube	154-174	0 (2,15)	1400	22010-004D
BASE001-E - in Carton tube	218-225	0 (2,15)	940	22010-004E
BASE001-X - in Carton tube	118-174	0 (2,15)	1500	*22010-004X
BASE301-A - in Carton tube	118-124	3 (5,15)	3500	22310-004A
BASE301-B - in Carton tube	124-130	3 (5,15)	3500	22310-004B
BASE301-C - in Carton tube	130-136	3 (5,15)	3100	22310-004C
BASE301-D - in Carton tube	136-142	3 (5,15)	3100	22310-004D
BASE301-E - in Carton tube	142-149	3 (5,15)	3100	22310-004E
BASE301-F - in Carton tube	149-156	3 (5,15)	2700	22310-004F
BASE301-G - in Carton tube	156-163	3 (5,15)	2700	22310-004G
BASE301-H - in Carton tube	163-174	3 (5,15)	2700	22310-004H
BASE301-K - in Carton tube	218-225	3 (5,15)	2700	22310-004K
BASE301-X - in Carton tube	118-174	3 (5,15)	3500	*22310-004X

* For X version: Approx. 5 % of the specified Centre Freq (CF)



DUPLEX FILTER UHF

VHF 50-Watt Duplexer 6-Cavity

DXF450 (UHF)

DXF150 is a 6-cavity VHF 450 MHz duplexer for duplex transceivers. The duplexer is a compact unit intended for transceiver equipment. 50 Watts power handling in a compact mobile size.

Frequency	406 – 470 MHz (in one model)
Spacing	9-13 MHz
Power	50 Watt
Isolation (suppression)	Single CH $\geq$ 85 dB / Multi CH $\geq$ 60 dB
Connector	N-female
Ingress protection	IP66
Dimensions	224 x 154 x 32 mm
Weight	1.1 kg
Operating temperature	-30C to +60C
Color	Black (matte)

Model	Frequency (MHz)	GAIN dBd (dBi)	Height (mm)	Item no.
DXF450	406-470 MHz	9-13 MHz	Not tuned	51008-003
DXF450	406-470 MHz	9-13 MHz	factory tuned	51008-003X



450 MHz OMNI-BASE ANTENNAS (2–7 dBi)

UHF Omni-Directional Antennas– Integrated Fixed bracket

BASE004/BASE304/BASE504

UHF 450 MHz base station antennas with integrated multipurpose mounting bracket comes with a generous bandwidth which reduces the need for multiple antennas both in stock and on installation sites.

Frequency	330 – 512 MHz
Power	250 - 300 Watt (depending on model)
Mounting Type	Fixed Tube Mounting Bracket. Stainless Steel Mounting Hardware included.
Mounting Place	On vertical or horizontal mast tube (Ø 30 – 60 mm)
Connector	N-female
Ingress protection	IP66
Survival wind speed	55 m/s (200km/h)
Operating temperature	-55C to +70C (IEC 60068-2-1, IEC 60068-2-2)

Model	Frequency (MHz)	Gain dBd (dBi)	Length (mm)	Item no.
BASE004-G - in Carton tube	330-360	0 (2,15)	1190	23004-004F
BASE004-F - in Carton tube	380-400	0 (2,15)	1190	23004-004F
BASE004-A - in Carton tube	406-426	0 (2,15)	1190	23004-004A
BASE004-B - in Carton tube	420-440	0 (2,15)	900	23004-004B
BASE004-C - in Carton tube	430-450	0 (2,15)	900	23004-004C
BASE004-D - in Carton tube	449-471	0 (2,15)	900	23004-004D
BASE004-E - in Carton tube	468-492	0 (2,15)	900	23004-004E
BASE004-X - in Carton tube	406-512	0 (2,15)	1190	*23004-004X
BASE304-A - in Carton tube	380-400	3 (5,15)	1600	23304-004A
BASE304-B - in Carton tube	406-430	3 (5,15)	1500	23304-004B
BASE304-C - in Carton tube	410-430	3 (5,15)	1500	23304-004C
BASE304-D - in Carton tube	417-450	3 (5,15)	1500	23304-004D
BASE304-E - in Carton tube	434-450	3 (5,15)	1400	23304-004E
BASE304-F - in Carton tube	440-470	3 (5,15)	1400	23304-004F
BASE304-G - in Carton tube	467-485	3 (5,15)	1400	23304-004G
BASE304-H - in Carton tube	485-503	3 (5,15)	1360	23304-004H
BASE304-X - in Carton tube	406-512	3 (5,15)	1600	*23304-004X
BASE504-A - in Carton tube	380-410	5 (7,15)	2250	23504-004A
BASE504-B - in Carton tube	400-430	5 (7,15)	2250	23504-004B
BASE504-C - in Carton tube	420-450	5 (7,15)	2250	23504-004C
BASE504-D - in Carton tube	440-470	5 (7,15)	2250	23504-004D

* For X version: Approx. 5 % of the specified Centre Freq (CF)



450 MHz LIGHT WEIGHT WIDEBAND OMNI-ANTENNA

UHF Broadband Unity Gain Omni-Antenna – Integrated Fixed bracket

UHF004

Light weight wideband UHF 450 MHz Omni-Directional antenna with integrated multipurpose mounting bracket. Comes with a generous bandwidth which reduces the need for multiple antennas both in stock and on installation sites.

Frequency	330 – 510 MHz (covered by 4 models)
Bandwidth	50 MHz
Gain	0 dBd (2,15 dBi)
Power	200 Watt
Mounting Type	Fixed Tube Mounting Bracket. Stainless Steel Mounting Hardware included.
Mounting Place	On vertical or horizontal mast tube (Ø 30 – 60 mm)
Connector	N-female
Ingress protection	IP66
Survival wind speed	55 m/s (200km/h)
Operating temperature	-55C to +70C (IEC 60068-2-1, IEC 60068-2-2)

Model	Frequency (MHz)	Gain dBd (dBi)	Length (mm)	Item no.
UHF004-A - in polybag	330-380	0 (2,15)	700	23005-001A
UHF004-B - in polybag	380-430	0 (2,15)	700	23005-001B
UHF004-C - in polybag	420-470	0 (2,15)	700	23005-001C
UHF004-D - in polybag	460-510	0 (2,15)	700	23005-001D
UHF004-A - in Carton tube	330-380	0 (2,15)	700	23005-001A
UHF004-B - in Carton tube	380-430	0 (2,15)	700	23005-001B
UHF004-C - in Carton tube	420-470	0 (2,15)	700	23005-001C
UHF004-D - in Carton tube	460-510	0 (2,15)	700	23005-001D



450 MHz LIGHT WEIGHT WIDEBAND OMNI-ANTENNA

UHF Broadband Unity Gain Omni-Antenna – (G1"-11 thread)

UHF44

Light weight wideband UHF 450 MHz Omni-Directional antenna with 1" threaded pole (G1"-11 thread), can be used with revolving Nut Kit or on optionally brackets. Comes with a generous bandwidth which reduces the need for multiple antennas both in stock and on installation sites.

Frequency	330 – 510 MHz (covered by 4 models)
Bandwidth	50 MHz
Gain	0 dBd (2,15 dBi)
Power	200 Watt
Mounting Type	On 1" threaded pole or bracket (G1"-11 thread) with the supplied fixed Revolving Nut
Mounting Place	On vertical or horizontal mast tube (Ø 30 – 60 mm)
Connector	N-female
Ingress protection	IP66
Survival wind speed	55 m/s (200km/h)
Operating temperature	-55C to +70C (IEC 60068-2-1, IEC 60068-2-2)



Model	Frequency (MHz)	Gain dBd (dBi)	Length (mm)	Item no.
UHF44-A - in polybag	330-380	0 (2,15)	640	14044-001A
UHF44-B - in polybag	380-430	0 (2,15)	640	14044-001B
UHF44-C - in polybag	420-470	0 (2,15)	640	14044-001C
UHF44-D - in polybag	460-510	0 (2,15)	640	14044-001D
UHF44-A - in Carton tube	330-380	0 (2,15)	640	14044-001A
UHF44-B - in Carton tube	380-430	0 (2,15)	640	14044-001B
UHF44-C - in Carton tube	420-470	0 (2,15)	640	14044-001C
UHF44-D - in Carton tube	460-510	0 (2,15)	640	14044-001D



10000-183 Mount



10000-133 Mount



10000-141 Mount

450 MHz OMNI ANTENNAS (2–7 dBi)

UHF Omni-Directional Antennas– (G1"-11 thread)

UHF43/UHF46/UHF49

UHF 450 MHz base station antennas with 1" threaded pole (G1"-11 thread), can be used with revolving Nut Kit or on optionally brackets. Comes with a generous bandwidth which reduces the need for multiple antennas both in stock and on installation sites.

Frequency	330 – 512 MHz
Power	250 Watt
Mounting Type	On 1" threaded pole or bracket (G1"-11 thread) with the supplied fixed Revolving Nut
Connector	N-female
Ingress protection	IP66
Survival wind speed	55 m/s (200km/h)
Operating temperature	-55C to +70C (IEC 60068-2-1, IEC 60068-2-2)

Model	Frequency (MHz)	Gain dBd (dBi)	Length (mm)	Item no.
UHF43A - in Carton tube	380-400	0 (2,15)	1145	14043-002A
UHF43B - in Carton tube	406-430	0 (2,15)	1145	14043-002B
UHF43C - in Carton tube	425-450	0 (2,15)	855	14043-002C
UHF43D - in Carton tube	445-470	0 (2,15)	855	14043-002D
UHF43E - in Carton tube	330-360	0 (2,15)	1145	14043-002D
UHF43X - in Carton tube	396-512	0 (2,15)	1145	14043-002X
UHF46A - in Carton tube	380-400	3 (5,15)	1540	14046-002B
UHF46B - in Carton tube	410-430	3 (5,15)	1440	14046-002C
UHF46C - in Carton tube	430-500	3 (5,15)	1440	14046-002D
UHF46D - in Carton tube	450-470	3 (5,15)	1340	14046-002D
UHF46X - in Carton tube	380-512	3 (5,15)	1540	14046-002X
UHF49A - in Carton tube	380-410	5 (7,15)	2132	14049-002B
UHF49B - in Carton tube	400-430	5 (7,15)	2132	14049-002C
UHF49C - in Carton tube	420-450	5 (7,15)	2132	14049-002D
UHF49D - in Carton tube	440-470	5 (7,15)	2132	14049-002D

If 1" Revolving Nut Kit is needed with antenna: Change above listed P/N to xxxxx-**432** for kit in tube

* For X version: Approx. 5 % of the specified Centre Freq (CF)



10000-183 Mount



10000-133 Mount



10000-173 Mount



10102-003 Mount

MOUNTING BRACKETS

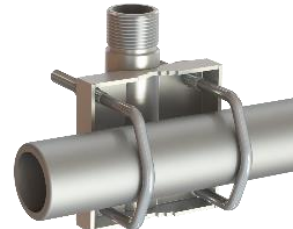
Different types for different purposes



MAST/RAIL MOUNT 1"-14NF
10000-183



MAST/RAIL MOUNT 1"-14NF
10000-123



MAST/RAIL MOUNT G1"-11
10102-003



WALL/RAIL MOUNT (Ø 16.5 MM)
10000-141



MAST/RAIL MOUNT (Ø 25 MM)
10000-173



MAST MOUNT UNIVERSAL
10000-191



DECK MOUNT 1"-14NF
10000-020



CONNECTOR PROTECTION CAP
15 026



1"REVOLVING NUT KIT G1"-11
10000-431



1" ADAPTER TUBE HD (150 MM)
10000-420



WALL BRACKET 87 (Ø11.8)
16200IP



WALL BRACKET 87 (Ø11.8) WHITE
16210IP



WALL BRACKET 87 (Ø13.5)
16220IP



WALL BRACKET 169 (Ø17.5)
16180IP



MAST/WALL MOUNT UNIVERSAL
10000-221

SCAN Antenna is a long- established company and has many designs for customers.

We are a technology-focused company. Growth has come from our reputation for supplying quality products, and we provide effective and well documented manufacturing and quality control. We have modern Head Quarters and laboratories with the most advanced design, simulation, test & measurement tools.

SCAN Antenna supply for heavy duty use when connectivity is vital and truly matters.

*More than a million marine antennas have been produced at our factory.
That product line has primarily been under private label.*

