



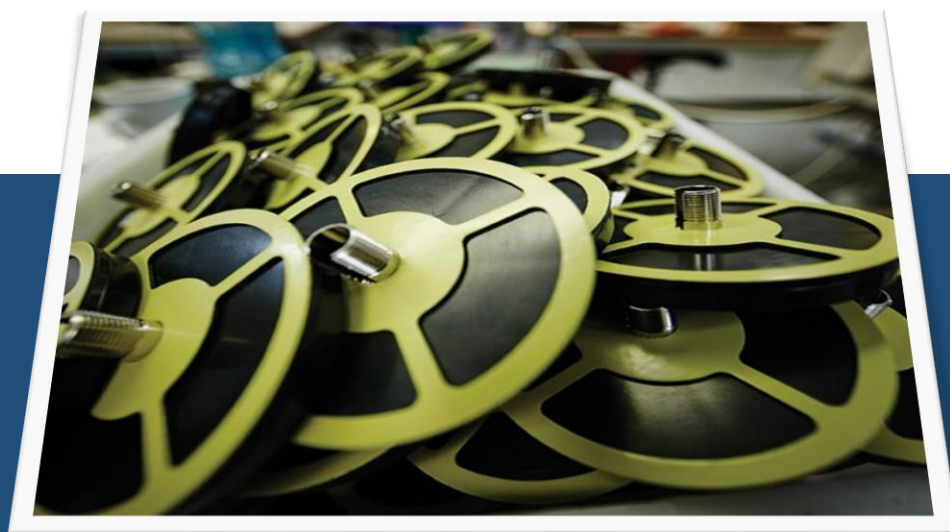
MOBILE ANTENNAS

FLEETMANAGEMENT AND RELIABLE COMMUNICATION

Antennas for the harsh environment met in professional vehicles, being trucks, busses, construction machinery or agricultural machinery.

Thanks to state-of-the-art antenna systems, you can always be in contact with both the vehicle and the staff operating the vehicle. You can determine the position, status and surroundings to initiate prompt reactions if required.

SCAN Antenna has a wide portfolio of antennas for VHF, UHF and GNSS. Including but not limited to 2G/3G/4G/5G and TETRA.



SMALL SIZE 3-PORT DIPLEXER

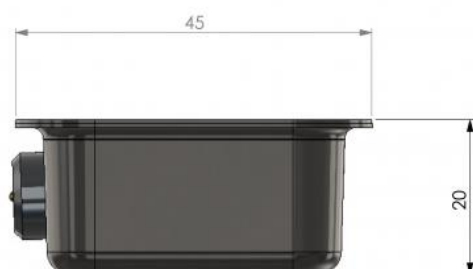
Diplexer 108/136 - 225/380 - 500/800

Small size low loss 3 port diplexer with adhesive pad for easy installation.

Frequency	108/136 MHz, 225/380MHz or 500/800 MHz
Power	30 Watt
Mounting	Adhesive pad
Mounting Place	Inside
Connector	FME(M) or SMA(F)
Dimension	80 x 45 x 20 mm
Weight	Approx. 60-75g
Operating temperature	-40C to +70C



Model	Frequency (MHz)	Item no.
Diplexer 108/136 (FME)	L: 0-108 MHz / H: 136-1300 MHz	15 318 IP
Diplexer 225/380 (FME)	L: 0-225 MHz / H: 380-2170 MHz	15 500 IP
Diplexer 500/800 (FME)	L: 0-500 MHz / H: 800-2170 MHz	15 510 IP
Diplexer 108/136 (SMA)	L: 0-108 MHz / H: 136-1300 MHz	51081-000
Diplexer 225/380 (SMA)	L: 0-225 MHz / H: 380-2170 MHz	51082-000
Diplexer 500/800 (SMA)	L: 0-500 MHz / H: 800-2170 MHz	51083-000



ROOF MOUNTS (M6)

Mobile mounts for roof installations



SX-Mount

Strong and reliable universal mount for roof, trunk and wing mounting.

Tilt/rotate in all directions.

It accepts antenna whips with external M5 threaded stud or with internal M6 thread (by use of the supplied M5/M6 threaded adapter)

Frequency	0 – 1000 MHz
Mounting	Bolt-on (from inside or outside) Mounting from inside Ø13 mm Mounting from outside: Ø19mm
Height above roof	46 mm
Connector	Fixed cable – FME-male
Ingress protection	IP65 (when mounted)
Color	Black

	SX-Mount 0.1m	SX-Mount 5m
Item no.	46 500	46 515

MultiMag-Mount

Very strong mobile magnet mount for roof mounting of all antenna whips supplied with either external M5 threaded stud (G-Mount types) or internal M6 thread (SX-Mount types).

Low profile design and very strong.

Frequency	0 – 1000 MHz
Mounting	Magnet
Height above roof	40 mm
Connection	Fixed cable 3.5m – FME-female
Ingress protection	IP65 (when mounted)
Dimensions	104 x 104 mm
Color	Black



	MultiMag-E (M5/M6)
Item no.	E16 045

ROOF MOUNTS (M5)

G-Mount

Mobile mount for roof mounting of antenna whips supplied with external M5 threaded stud.

It can be mounted from the inside or from the outside.

The antenna whip is tiltable 15° in all directions by bending the top section.



Frequency
Mounting

0 – 2500 MHz
Bolt-on (from inside or outside)
Mounting from inside Ø13 mm
Mounting from outside: Ø19mm

Height above roof
Connection
Ingress protection
Color

30 mm
Fixed cable
IP65 (when mounted)
Black

Item no.	G-Mount 0.15m + FME-male	G-Mount 0.15m + SMA-Female
	G16 060	46 062

CombiSat-Mount

Roof mounted universal antenna base with built-in active GNSS antenna. The base accepts mobile antenna whips with external M5 threaded stud. M5/M6-adaptor for optionally mounting of antenna whips with internal M6 thread is supplied

Frequency
Mounting
Connector External
Connector2 GNNS
Ingress protection
Color

0 – 2500 MHz (whip) / 1561.1-1605.4 MHz (GNSS)
Bolt-on from inside / Mounting hole Ø18-22mm
FME-male (black)
FME-male (blue)
IP65 (when mounted)
Black



Item no.	CombiSat-Mount 0.15m	CombiSat-Mount xxx
	G40 001	G40 xxx (others)

TetraSat-Mount

Roof mounted universal 4-band antenna base with tilt function and built-in active GNSS antenna and dual-band GSM/GPRS antenna. The base accepts mobile antenna whips (0-1000 MHz) with external M5 threaded stud or internal M6 thread (by use of the supplied M5/M6 threaded adapter)

Frequency

0 – 1000 MHz (whip) / 1561.1-1605.4 MHz (GNSS)
870 - 960 MHz, 1710 - 1880 MHz (built in)

Mounting

Bolt-on from inside / Mounting hole Ø14-22mm

Connector GNSS

SMA-Female (blue)

Connector2 GSM

SMA-female (Red)

Connector3 External

FME-male (black)

Ingress protection

IP65 (when mounted)

Color

Black



Item no.	TetraSat 0.1 – 0.3m
	G40 630

ANTENNA WHIPS E-SERIES (M6)

Following antenna whip series E12 xxx (M6) can be used together with the SX-mount and MultiMag.

Model	Frequency	Gain dBd	Length (mm)	Item no.
E27DKF 0 dB	26.5 – 27.5 MHz (CB)	0	570	E12 062
ET27 5/8F 0 dB	26.5 – 27.5 MHz (CB)	0	570	E12 041
PTBL27 0 dB Flex	26.5 – 27.5 MHz (CB)	0	400	E12 160
E30DKF 0 dB	30 – 31 MHz	0	540	E12 258
E40DKF 0 dB	40 – 41 MHz	0	485	E12 246
PTBL40 0 dB Flex	40 – 41 MHz (HF)	0	375	E12 161
E65-75DKF 0 dB	65 – 75 MHz (4m)	0	540	E12 300
E66-88DKF 0 dB	66 – 88 MHz (4m)	0	560	E12 247
E68 0 dB Rigid	68 MHz (4m)	0	1110	E12 265
E60-300 0 dB Rigid	60 - 300 MHz (4m)	0	1240	E12 075
E135-185 0 dB Flex	135 – 185 MHz (2m)	0	500	E12 296
E135-300F 0 dB	135 – 300 MHz (2m)	0	570	E12 254
E135-300 0 dB Rigid	135 – 300 MHz (2m)	0	515	E12 044
E390 3 DB OC	380 – 400 MHz	3	680	E12 243
E420 3 dB OC	406 – 430 MHz	3	635	E12 170
E450 3DB OC	445 – 470 MHz	3	565	E12 067
E390-510 3DB	380 – 510 MHz (tunable)	3	675	E12 252

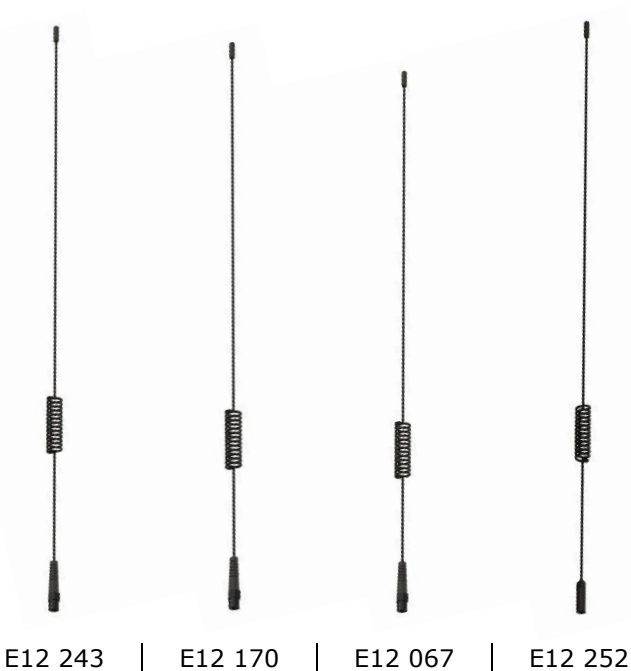
*Antenna whips comes in bag but can be ordered as bulk. If you put IP behind item no (example E12 xxx **IP**).



E12 062 | E12 041 | E12 160 | E12 258 | E12 246 | E12 161

ANTENNA WHIPS E-SERIES (M6)

Following antenna whip series E12 xxx (M6) can be used together with the SX-mount and MultiMag.



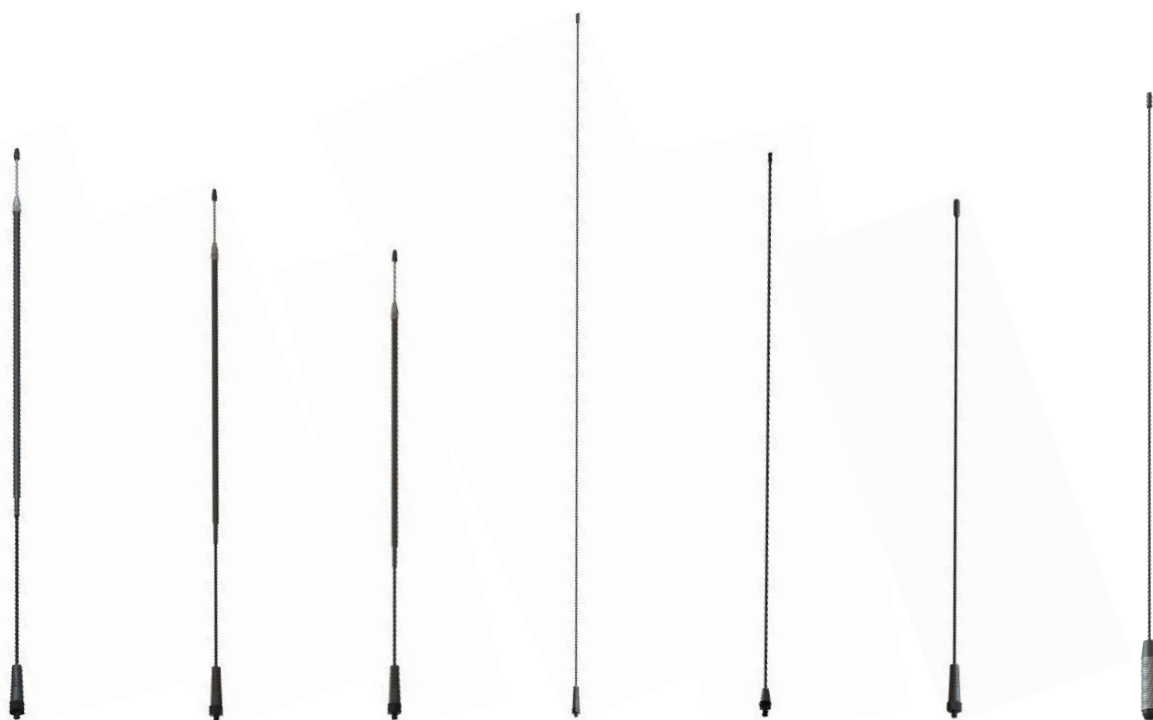
ANTENNA WHIPS G-SERIES (M5)

Following antenna whip series G12 xxx (M5) can be used together with the G-mount & CombiSat, TetraSat and MultiMag (up to 1000 MHz antenna whips).

Model	Frequency	Gain	Height	Item no.
G27DKF 1/4	26.5 – 27.5 MHz (CB)	0 dBd	570 mm	G12 080
G30DKF 1/4	30 – 31 MHz	0 dBd	500 mm	G12 081
G40DKF 1/4	40 – 41 MHz	0 dBd	430 mm	G12 082
G30-300 0 dB	60 – 300 MHz (4m)	0 dBd	1235 mm*	G12 060
G135-195 0 dB	135 – 195 MHz (2m)	0 dBd	525 mm*	G12 052
G135-300 0 dB Rigid	135 – 300 MHz (2m)	0 dBd	510 mm*	G12 050
G135-300F 0 dB Rigid	135 – 300 MHz (2m)	0 dBd	700 mm*	G12 051
G400 0 dB M-FLEX	380 – 430 MHz (TETRA)	0 dBd	173 mm	G12 018
G414 0 dB M-FLEX	414 MHz (50 MHz bandwidth)	0 dBd	162 mm	G12 017
G419 0 dB M-FLEX	419 MHz (50 MHz bandwidth)	0 dBd	159 mm	G12 016
G450 0 dB M-FLEX	420 – 470 MHz (PMR)	0 dBd	155 mm	G12 019
G395 3 dB OC	380 – 410 MHz (TETRA)	3 dBd	665 mm	G12 021
G420 3 dB OC	410 – 435 MHz (TETRA)	3 dBd	630 mm	G12 032
G435 3 dB OC	435 – 455 MHz (PMR)	3 dBd	565 mm	G12 036
G450 3 dB OC	450 – 470 MHz (PMR)	3 dBd	550 mm	G12 042
G380-470 3 dB	380 – 470 MHz (tunable)	3 dBd	680 mm *	G12 039
G1800 3 dB FLEX	1710 – 1880 MHz	3 dBd	115 mm	G12 002
G1900 3 dB FLEX	1850 – 1990 MHz	3 dBd	115 mm	G12 005
G-UMTS 3 dB FLEX	1920 – 2170 MHz (UMTS)	3 dBd	90 mm	G12 151
G2400 0 dB FLEX	2400 – 2500 MHz (WLAN, ISM)	0 dBd	68 mm	G12 090
G900-1800 0 dB FLEX	890-960 / 1710-1880 MHz	0 dBd	68 mm	G12 070
G900-1800 0 dB POM	890-960 / 1710-1880 MHz	0 dBd	43 mm	G12 070POM

Antenna whips comes in bag but can be ordered as bulk. If you put IP behind item no (example G12 xxx **IP**).

*Before cutting



G12 080 | G12 081 | G12 082 | G12 060 | G12 052 | G12 050 | G12 051

ANTENNA WHIPS G-SERIES (M5)



G12 018 | G12 017 | G12 016 | G12 019 | G12 021 | G12 032 | G12 036 | G12 042 | G12 039



G12 002 | G12 005 | G12 151 | G12 090 | G12 070 | G12 070 POM

MOUNT FOR NON-CONDUCTIVE SURFACE MOUNTING



NG-Mount

Mobile roof mount with integrated coaxial FME-male connector for non-conductive surface mounting of $1/2 \lambda$ portable antenna whips with FME-female connector

NOTE: Not suitable for $1/4 \lambda$ antenna whips unless sufficient ground plane is being provided!

Coaxial FME-male connection to antenna whip

Frequency	0 – 2500 MHz
Mounting	Bolt-on (from inside or outside)
Mounting place	On non-conductive vehicle roof etc.
Height above roof	30 mm
Connection	Fixed cable
Ingress protection	IP65 (when mounted)
Color	Black

	NG-Mount 1.5m + FME-female	NG-Mount 3m + FME-female	NG-Mount 4m + FME-female	NG-Mount 5m + FME-female
Item no.	16 137	16 090	16 104	16 136

Following $1/2 \lambda$ portable antennas with FME-female connector can be used on NG-Mount.

Model	Frequency	Gain	Height	Item no.
PT390 $1/2$ (FME)	380 – 410 MHz	0 dBd	475 mm	14 140
PT420 $1/2$ (FME)	400 – 430 MHz	0 dBd	430 mm	14 079
PT435 $1/2$ (FME)	420 – 450 MHz	0 dBd	405 mm	14 070
PT450 $1/2$ (FME)	440 – 470 MHz	0 dBd	390 mm	14 026
PT900 $1/2$ (FME)	860 – 960 MHz	0 dBd	180 mm	14 017
PT920 $1/2$ (FME)	880 - 960 / 1710 – 1880 / 1850 - 1990 / 1920 - 2170 MHz	0 dBd	170 mm	14 420
PT1900 $1/2$ (FME)	1850 – 1990 MHz	0 dBd	110 mm	14 225
PT-UMTS $1/2$ (FME)	1920 – 2170 MHz	0 dBd	110 mm	14 706
PT800/1900 $1/2$ (FME)	824-894 / 1850-1990 MHz	0 dBd	170 mm	14 230

Antennas comes in bag but can be ordered as bulk. If you put IP behind item no (example 14 xxx **IP**).



14 140 | 14 079 | 14 070 | 14 026 | 14 017 | 14 420 | 14 225 | 14 706 | 14 230

PUCK ANTENNA LTE - **Extendr®**

GNSS



Extendr® 1 / Extendr® 2 / Extendr® 3

Rugged tamper-proof multiband antenna combining all major cellular bands / GNSS or WiFi.

The antenna is ideal for IoT and M2M applications providing a stable connection in critical areas.

The Extendr® antenna family offers multiple mounting options and can also be offered with customer specified cables and connectors.

Frequency 1	790 – 2690 MHz (GSM/UMTS/LTE) Extendr 1 / Extendr 2 / Extendr 3
Frequency 2	1561.1 – 1605.4 MHz (GNSS) Extendr 2 / Extendr 3
Frequency 3	2400 – 2495 MHz / 4910 – 5925 MHz (WiFi) Extendr 3
Mounting	Through hole, Adhesive or Magnetic Mounting
Height above roof	46 mm
Diameter	111 mm
Connection 1 LTE	Fixed cable 1.5m SMA-male (RED) Extendr 1 / Extendr 2 / Extendr 3
Connection 2 GNSS	Fixed cable 1.5m SMA-male (BLUE) Extendr 2 / Extendr 3
Connection 3 Wi-Fi	Fixed cable 1.5m SMA-male (BLACK) Extendr 3
Ingress protection	IP67 (When mounted correctly)



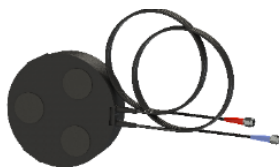
Extendr 1 – LTE



Extendr 2 – LTE/GNSS



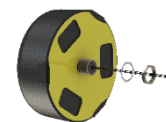
Extendr 3 – LTE/GNSS/WiFi



Magnetic



Adhesive



Through hole

Mounting	Extendr 1	Extendr 2	Extendr 3
Through hole	48011-001	48012-001	48013-001
Adhesive	48021-001	48022-001	48023-001
Magnetic	48031-001	48033-001	48033-001

Antennas are packed in bag but can be ordered as bulk. If you put xxxxx-**000** instead of xxxxx-001.

DOME ANTENNA - Commutr®

GNSS



Commutr® (2G73G/4G+GNSS+WiFi)

Full Omni-Directional multiband antenna for through-hole roof mounting. Especially made for demanding mobile communication applications on trucks and buses.

- 10 BANDS IN ONE INSTALLATION (LTE/GSM/UMTS/WLAN/GNSS)
- LOW PROFILE DESIGN
- ACTIVE GNSS ANTENNA
- WIDE RANGE OF EXTENSION CABLES AVAILABLE (NOT INCLUDED)

Frequency

Mounting

Height above roof

Diameter

Connection1 LTE

Connection2 GNSS

Connection3 Wi-Fi

Ingress protection

790 – 2690 MHz (GSM/UMTS/LTE)

1561.1 – 1605.4 MHz (GNSS)

2412 – 2484 MHz / 4915 – 5825 MHz (WiFi)

Bolt-on with adhesive tape for effective sealing

61.5 mm

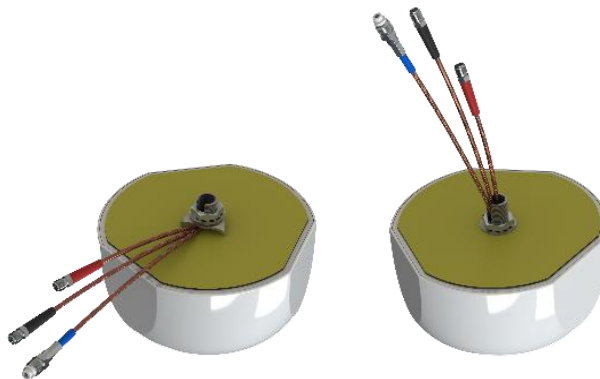
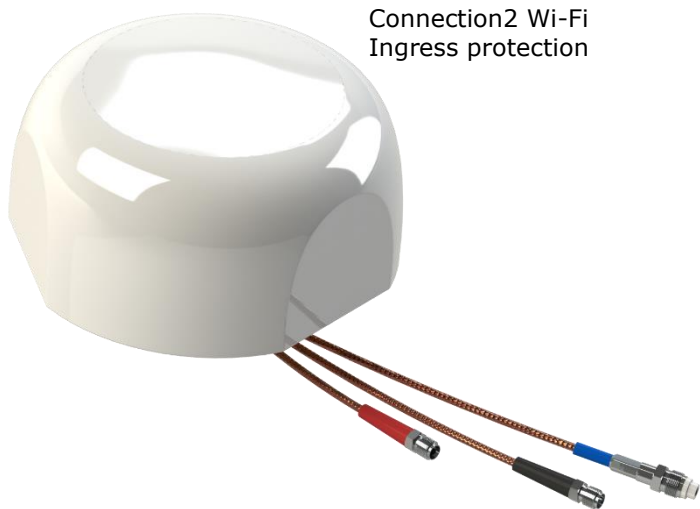
124 mm

Fixed cable 0.20m SMA-female (RED)

Fixed cable 0.25m FME-female (BLUE)

Fixed cable 0.30m SMA-female (BLACK)

IP66



Model	Item no.	Kit
Commutr Antenna	48003-001	Antenna
Commutr kit-06 (5m)	48003-011	Antenna + 3x extension 5m cables
Commutr kit-07 (3m)	48003-021	Antenna + 3x extension 3m cables



LOW PROFILE ANTENNA **TeleSat**

GNSS



TeleSat-5 (2G/3G/4G)

Heavy duty Omni-Directional 5-BAND antenna for through-hole roof mounting on trucks, trailers etc. Low profile design. IP67 Ingress protection

Frequency	790 – 2690 MHz (GSM/UMTS/LTE)
Mounting	Bolt-on with adhesive for effective sealing
Height above roof / Diameter	16 mm / Ø 92 mm
Connection	Fixed cable 0.15m SMA-female

TeleSat-6 (2G/3G+GNSS)

Heavy duty Omni-Directional 6-BAND antenna including built-in active GNSS antenna for tracking and navigation purpose. Through-hole roof mounting on trucks, trailers etc. Low profile design. IP67 Ingress protection

Frequency	824 – 2170 MHz (GSM/UMTS) / 1561.1 – 1605.4 MHz
Mounting	Bolt-on with adhesive for effective sealing
Height above roof / Diameter	16 mm / Ø 92 mm
Connection (GSM/UMTS) Red	Fixed cable 0.15m SMA-female
Connection2 (GNSS) Blue	Fixed cable 0.20m FME-female

TeleSat-7 (2G/3G+WLAN+GNSS)

Heavy duty Omni-Directional 7-BAND antenna including active GNSS antenna for through-hole roof mounting on trucks, trailers etc. including full 1/4 external WLAN whip antenna for optimum radiation performance. Low profile design. IP67 Ingress protection

Frequency	824 – 2170 MHz (GSM/UMTS) / 2310 – 2485 MHz (WLAN) 1561.1 – 1605.4 MHz (GNSS)
Mounting	Bolt-on with adhesive for effective sealing
Height above roof / Diameter	16 mm / Ø 92 mm
Connection1 (GSM/UMTS) Red	Fixed cable 0.15m SMA-female
Connection2 (WLAN) Black	Fixed cable 0.17m SMA-female
Connection3(GNSS) blue	Fixed cable 0.20m FME-female

TeleSat-8 (2G/3G+WiFi+GNSS)

Heavy duty Omni-Directional 8-BAND antenna with built-in active GNSS antenna for through-hole roof mounting on trucks, trailers etc. Low profile design. IP67 Ingress protection

Frequency	824 – 2170 MHz (GSM/UMTS) / 1561.1 – 1605.4 MHz 2400 – 2485 MHz/4915 – 5825 MHz (WiFi)
Mounting	Bolt-on with adhesive for effective sealing
Height above roof / Diameter	16 mm / Ø 92 mm
Connection1 (GSM/UMTS) Red	Fixed cable 0.15m SMA-female
Connection2 (WLAN) Black	Fixed cable 0.17m SMA-female
Connection3(GNSS) blue	Fixed cable 0.20m FME-female

Model	Item no.
TeleSat-5	45 500
TeleSat-6	45 600
TeleSat-7	45 700
TeleSat-8	45 800

Antennas comes in bag but can be ordered as bulk.
If you put IP behind item no (example 45 xxx **IP**).

LOW PROFILE TAMPER-PROOF ANTENNAS



UMTS



Low profile mobile antennas for in-car, body mount, on-glass, through hole, etc.

TeleSat-5S (2G/3G)

Heavy duty Omni-Directional 5-BAND antenna for roof mounting on trucks, trailers etc. Low profile design.

Frequency	824 – 2170 MHz (GSM/UMTS)
Mounting	Adhesive
Height above roof / Diameter	16 mm / Ø 92 mm
Connection	Fixed cable 2.5m FME-female (other types available)



DOTCOM QUAD (2G/3G)

4-band self-adhesive linear patch antenna for in-car screen mounting. Low profile design.

Frequency	870-960 MHz / 1710 – 2170 MHz (GSM/UMTS)
Mounting	Adhesive pad
Diameter	Ø 54 mm
Connection	Fixed cable 3m FME-female (other types available)



MINI-DOTCOM DUAL (2G)

Dual frequency self-adhesive linear patch antenna for in-car screen mounting. Low profile design.

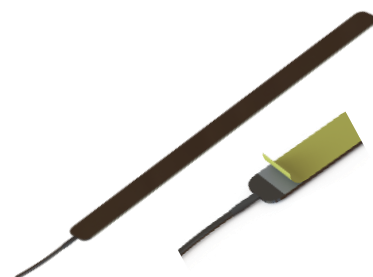
Frequency	890-960 MHz / 1710 – 1880 MHz (GSM)
Mounting	Adhesive (on screen)
Diameter	Ø 33 mm
Connection	Fixed cable 2.5m FME-female (other types available)



On-Glass TETRA

Mobile glass mounted 1/2 λ strip-line Tetra antenna. Mounted inside vehicles. Covert and tamper proof.

Frequency	380 – 430 MHz (TETRA)
Mounting	Adhesive (inside on screen)
Dimensions	290 x 21.5 x 1.5 mm
Connection (GSM/UMTS) Red	Fixed cable 3m SMA-male (other types available)



Model	Item no.
TeleSat-5S	45 500S
DOTCOM QUAD	20 500
MINI-DOTCOM DUAL	20 700
On-Glass TETRA	45101-001

Antennas comes in bag but can be ordered as bulk.
If you put IP behind item no (example xx xxx **IP**).

LOW PROFILE GNSS-ANTENNAS

GNSS

GNSS-ANTENNAS (SAT-NAVIGATION)

Low-Profile GNSS-Antennas for satellite systems GLONASS, GPS, Galileo and BeiDou.
For navigation and tracking purpose.

Frequency	1561.1 MHz, 1575.42 MHz, 1598.1 - 1605.4 MHz (GLONASS, GPS, Galileo & BeiDou)
Polarisation	RHC (Right hand Circular)
LNA Gain	26 dB (28 dB Low power versions)
Supply voltage	3-5.5V DC (low power versions 2-3V DC)
Current consumption	Approx. 20 mA (Low power version approx. 10 mA)



SATFIX-1
14 140



SATFIX-2
14 210



SATFIX-1 (WHITE)
14 230 WIP



SATFIX-1 (PASSIVE)
14 236



SATFIX-1 (LOW POWER)
42 200



UNISAT (LOW POWER)
40 923



UNISAT
40 953



UNISAT (VELCRO)
40 953V



UNISAT (PASSIVE)
40 971



SATMAG
40 983



GNSS152-1
52 110



GNSS01
16001-000

Model	Supply voltage	Mounting	Diameter	Item no.
SATFIX-1	3-5.5V DC	Bolt-on	Ø 48 mm	14 140
SATFIX-2	3-5.5V DC	Bolt-on	Ø 47 mm	14 201
SATFIX-1 (WHITE)	3-5.5V DC	Bolt-on	Ø 48 mm	14 230 WIP
SATFIX-1 (PASSIVE)		Bolt-on	Ø 48 mm	14 236
SATFIX-1 (LOW POWER)	2-3V DC	Bolt-on	Ø 48 mm	42 200
UNISAT (LOW POWER)	2-3V DC	Adhesive	Ø 38,5 mm	40 923
UNISAT	3-5.5V DC	Adhesive	Ø 38,5 mm	40 953
UNISAT (VELCRO)	3-5.5V DC	Velcro	Ø 38,5 mm	40 953V
UNISAT (PASSIVE)		Adhesive	Ø 38,5 mm	40 971
SATMAG	3-5.5V DC	Magnet	Ø 38,5 mm	40 983
GNSS152-1	3-5.5V DC	On-Glass	Ø 51 mm	52 110
GNSS01 (BLACK)	3-5.5V DC	Bolt-on	Ø 48 mm	16001-000

CABLES, & CONNECTORS

We offer various solution of cable length with connectors.

CABLES



Cable insertion loss is very important to the antenna installation. Please choose your cable carefully.

Cable type	Finish	Outer Diameter	Loss @ 450MHz	Loss @ 900MHz	Loss @ 1600MHz	Loss @ 1900MHz	Loss @ 2100MHz	Loss @ 2400MHz
		[mm]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]
RG174/U	Plastic	2.6	67	95	145	162	170	180
RG316/U	Teflon	2.5	60	85	120	135	142	150
RG316D	Teflon	3.0	60	85	120	135	142	150
RG58C/U	Plastic	5.0	38	55	80	88	93	100
RG223	Plastic	5.5	35	52	74	80	84	90
LTR195	Plastic	5.0	23	35	51	56	60	64
LTR240	Plastic	6.1	17	25	34	37	40	43
RG213/U	Plastic	10.3	16	22	32	34	35	38
LTR400	Plastic	10.3	8	12.5	18	19	20	22

CONNECTORS



BNC CONNECTORS



TNC CONNECTORS



N CONNECTORS



UHF CONNECTORS



SMA CONNECTORS



SMB CONNECTORS



MCX CONNECTORS



MMCX CONNECTORS



FME CONNECTORS



FAKRA CONNECTORS

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*

