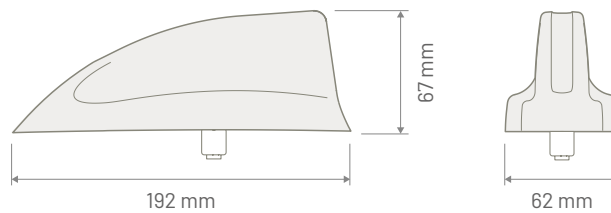


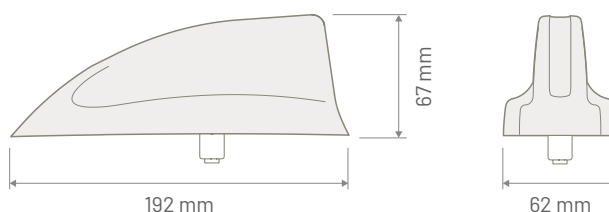
SHARK 3 TELEMATICS



P/N	DESCRIPTION	GSM UMTS LTE	WIFI DUAL BAND BLUETOOTH	GNSS	IP
7727108	COMLOC MIMO	2x	•	•	69
7727106	COM MIMO	2x	•	-	69

TECHNICAL SPECIFICATION	GSM - UMTS - LTE	WIFI DUAL BAND BLUETOOTH	GNSS
FREQUENCY	GSM: 876-935 / 1710-1880 MHz UMTS: 1900-2025 / 2110-2200 MHz LTE: 698-960 / 1710-2160 / 2490-2690 MHz	2401 – 2495 MHz / 5170 – 5850 MHz	1559 – 1610 MHz
CONNECTOR	FAKRA Male Bordeaux	FAKRA Male Violet	FAKRA Male Blue
CABLE TYPE	RG 174	RG 174	RG 174
CABLE LENGTH	230 mm and 260 mm	180 mm	410 mm
POWER SUPPLY	-	-	5 Volt (± 0,5) phantom
CONSUMPTION	-	-	31 mA max
IMPEDANCE	50 Ω	50 Ω	50 Ω
GAIN	Peak: 1 dBi	Peak: 5 dBi	28 dBi
VSWR	3:1	2,5:1	1,7:1
MAX POWER	4 Watt	4 Watt	-
MOUNTING	On roof		
COACHWORK DRILLING	Round: min 17 mm - max 23 mm		

SHARK 3 TETRA



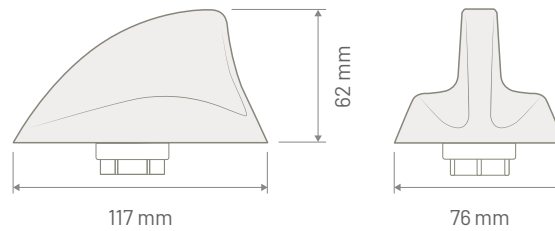
P/N	DESCRIPTION	TETRA	GNSS	IP ANTENNA	IP IMPEDANCE ADAPTER
7771017	TETRA	•		69	42
7771019	DUPLEX TETRA	•	•	69	42

TECHNICAL SPECIFICATION	GSM - UMTS - LTE	GNSS
FREQUENCY	380 - 430 MHz	1559 – 1610 MHz
CONNECTOR (BASE ANTENNA)	FAKRA Male Green	FAKRA Male Blue
CABLE TYPE (BASE ANTENNA)	RG 174	RG 174
CABLE LENGTH (BASE ANTENNA)	220 mm	410 mm
CONNECTOR (IMPEDANCE ADAPTER)	IN: FAKRA Male Black; OUT: FAKRA Male Green	-
EXTENSION CABLE	See note	Optional
POWER SUPPLY	-	5 Volt (± 0,5) phantom
CONSUMPTION	-	31 mA max
IMPEDANCE	50 Ω	50 Ω
GAIN	-3 dBi	32 dBi
VSWR	2:1	1,7:1
MAX POWER	10 Watt	-
MOUNTING	Antenna: on roof; Multiplexer: inside the vehicle	
COACHWORK DRILLING	Round: min 17 mm - max 23 mm	

NOTES

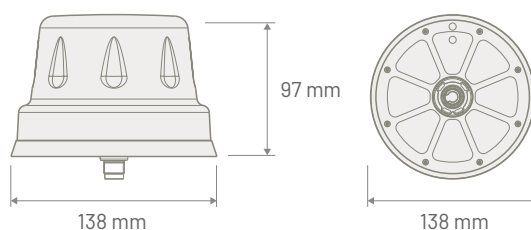
- Extension cable to connect TETRA output on the antenna base to the impedance adapter included in the package. Connectors: FAKRA Female Green and FAKRA Female BLACK; type: RG 58; length: 5000 mm.
- Extension cable to connect the impedance adapter to the transceiver included in the package. Connectors: FAKRA Female Green and TNC Male; type: RG 58; length: 1500 mm.

SHARK 2



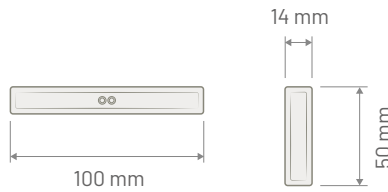
P/N	DESCRIPTION	GSM - UMTS LTE - 5G	WIFI DUAL BAND BLUETOOTH	GNSS	IP
7727098	COMLOC	•	-	•	68
7727099	COMLOC WIFI	•	•	•	68
TECHNICAL SPECIFICATION	GSM - UMTS - LTE - 5G	WIFI DUAL BAND BLUETOOTH	GNSS		
FREQUENCY	GSM: 876-935 / 1710-1880 MHz UMTS: 1900-2025 / 2110-2200 MHz LTE: 698-960 / 1710-2160 / 2490-2690 MHz 5G: 3400 - 3800 MHz	2401 – 2495 MHz / 5170 – 5850 MHz	1559 – 1610 MHz		
CONNECTOR	FAKRA Male Bordeaux	FAKRA Male Violet	FAKRA Male Blue		
CABLE TYPE	RG 174	RG 174	RG 174		
CABLE LENGTH	290 mm	120 mm	290 mm		
POWER SUPPLY	-	-	3 - 5 Volt phantom		
CONSUMPTION	-	-	45 mA max		
IMPEDANCE	50 Ω	50 Ω	50 Ω		
GAIN	Peak: min 2 dBi - max 6 dBi	Peak: 6 dBi	28 dBi		
VSWR	min 2:1 - max 2,5:1	2:1	2:1		
MAX POWER	4 Watt	4 Watt	-		
MOUNTING	On roof				
COACHWORK DRILLING	Square: 15x15 mm - Round: 19 mm				

RADOME COMPACT



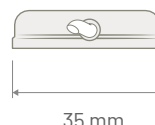
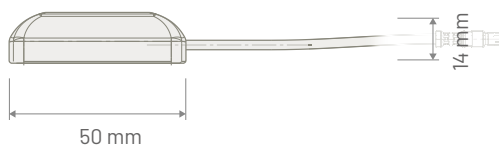
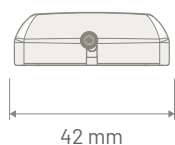
P/N	DESCRIPTION	GSM UMTS LTE	WIFI DUAL BAND BLUETOOTH	GNSS	IP
7770052	COM MIMO 2x2	2x	2x	-	69
7770057	COMLOC	•	•	•	69
7770058	COMLOC MIMO 3x	3x	•	•	69
7770059	COMLOC MIMO 2x2	2x	2x	•	69
TECHNICAL SPECIFICATION	GSM - UMTS - LTE	WIFI DUAL BAND BLUETOOTH	GNSS		
FREQUENCY	GSM: 876-935 / 1710-1880 MHz UMTS: 1900-2025 / 2110-2200 MHz LTE: 698-960 / 1710-2160 / 2490-2690 MHz	WIFI: 2401-2495 / 5170-5850 MHz BLUETOOTH: 2400 MHz	1559 - 1610 MHz		
CONNECTOR	FAKRA Male Bordeaux	FAKRA Male Violet	FAKRA Male Blue		
CABLE TYPE	RG 174	RG 174	RG 174		
CABLE LENGTH	190 mm	190 mm	190 mm		
POWER SUPPLY	-	-	3 - 5 Volt phantom		
CONSUMPTION	-	-	45 mA max		
IMPEDANCE	50 Ω	50 Ω	50 Ω		
GAIN	5 dBi max	4 dBi max	28 dBi		
VSWR	2,5:1	1,8:1	1,5:1		
MAX POWER	4 Watt	4 Watt	-		
MOUNTING	On roof				
COACHWORK DRILLING	Round: 19 mm				

LUNEX EVOLUTION



P/N	DESCRIPTION	GSM UMTS LTE	GNSS	IP
7731010	LUNEX EVOLUTION	•	•	41
TECHNICAL SPECIFICATION	GSM - UMTS - LTE	GNSS		
FREQUENCY	GSM: 876-935 / 1710-1880 MHz UMTS: 1900-2025 / 2110-2200 MHz LTE: 698-960 / 1710-2160 / 2490-2690 MHz	1559 - 1610 MHz		
CONNECTOR	FAKRA Male Bordeaux	FAKRA Male Blue		
CABLE TYPE	RG 174	RG 174		
CABLE LENGTH	210 mm	210 mm		
POWER SUPPLY	-	3 - 5 Volt phantom		
CONSUMPTION	-	36 mA max		
IMPEDANCE	50 Ω	50 Ω		
GAIN	0 dBi	29 dBi		
VSWR	GSM: 3,5:1 UMTS: 2:1 LTE: 2,5:1	2:1		
MAX POWER	4 Watt	-		
MOUNTING	Internal adhesive mounting			

NAVI



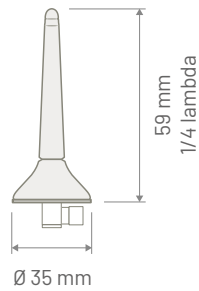
1

2

IMG	P/N	DESCRIPTION	GNSS	GPS	IP
1	7757001	NAVI	•		69k
	7757006	NAVI	•		69k
2	7750004	NAVI SMALL		•	52
	7750006	NAVI SMALL		•	52
	7750180	NAVI SMALL		•	52

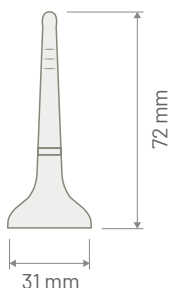
TECHNICAL SPECIFICATION	GNSS	GPS
FREQUENCY	1559-1610 MHz	1575,42 MHz
CONNECTOR	P/N 7757001 SMB Female P/N 7757006 FAKRA Female Blue	P/N 7750004 SMB Female P/N 7750006 FAKRA Female Blue P/N 7750180 FAKRA Male Blue
CABLE TYPE	RG 174	RG 174
CABLE LENGTH	3500 mm	P/N 7750004 7750006 3500 mm P/N 7750180 100 mm
POWER SUPPLY	3 - 5 Volt phantom	3 - 5 Volt phantom
CONSUMPTION	45 mA max	22 mA max
IMPEDANCE	50 Ω	50 Ω
GAIN	28 dBi	≥ 22 dBi
VSWR	1,5:1	< 2,1
MOUNTING	Internal and external - Magnetic and adhesive mounting	Internal adhesive mounting

LAMBDA QUARTER



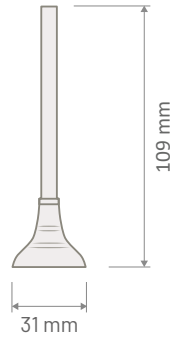
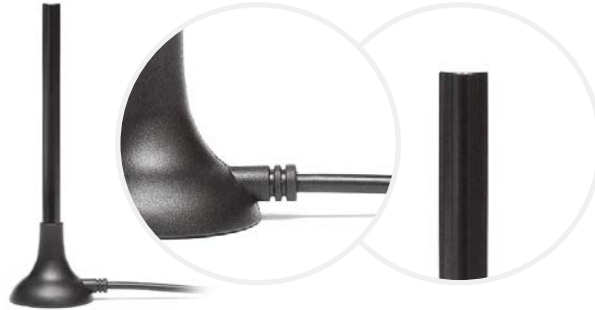
P/N	DESCRIPTION	GSM UMS	IP
7681052	LAMBDA QUARTER	•	64
TECHNICAL SPECIFICATION	GSM - UMS		
FREQUENCY	GSM: 876-935 / 1710-1880 MHz UMTS: 1900-2025 / 2110-2200 MHz		
CONNECTOR	FME Male		
CABLE TYPE	RG 58		
CABLE CONNECTOR	FME Female		
CABLE LENGTH	5000 mm		
IMPEDANCE	50 Ω		
GAIN	2,15 dBi		
VSWR	TX ≤ 2:1 - RX ≤ 2,5:1		
MAX POWER	8 Watt		
MOUNTING	Metal plane		
COACHWORK DRILLING	Round: 14		

MAGNETIC EVOLUTION



P/N	DESCRIPTION			ISM LTE GSM	DCS PCS UMTS	LTE WIFI BT	IP
8610147	LTE MAG EVO 4G			•	•	•	68
8610148	LTE MAG EVO 4G			•	•	•	68
TECHNICAL SPECIFICATION	ISM - LTE - GSM		DCS - PCS - UMTS		LTE - WIFI - BLUETOOTH		
FREQUENCY	698 - 960 MHz		1710 - 2170 MHz		2500 - 2700 MHz		
CONNECTOR	P/N 8610147 SMA Male P/N 8610148 FME Female						
CABLE TYPE	RG 174						
CABLE LENGTH	3000 mm						
IMPEDANCE	50 Ω		50 Ω		50 Ω		
GAIN	1 dBi		2,4 dBi		2,1 dBi		
VSWR	~ 1,9:1		~ 1,5:1		~ 1,3:1		
MAX POWER	50 Watt		50 Watt		50 Watt		
MOUNTING	Magnetic mount						

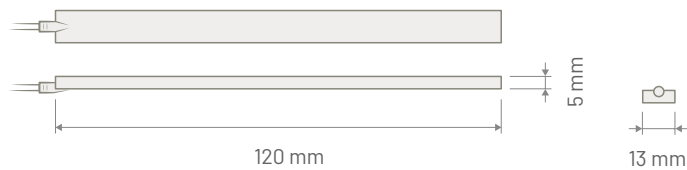
MAGNETIC EVOLUTION



P/N	DESCRIPTION	5G - 4G 3G - 2G	LPWA NB-IoT	BLUETOOTH	WIFI DUALBAND	BASE MATERIAL	ROD MATERIAL	COLOUR	IP
8610157	MAG EVO 5G	•	•	•	•	Polypropylene	Brass	Black	68

TECHNICAL SPECIFICATION	5G - 4G - 3G - 2G / LPWA / NB-IoT / BLUETOOTH / WIFI DUALBAND			
FREQUENCY	617 - 960 MHz	1427 - 2690 MHz	3300 - 5000 MHz	5150 - 5295 MHz
PEAK GAIN	1.0 dBi	2.9 dBi	2.5 dBi	0.4 dBi
VSWR	1.8:1	1.9:1	2.6:1	2.8:1
CONNECTOR	SMA Male Reverse Polarity			
CABLE TYPE	LL100 Low Loss			
CABLE LENGTH	3000 mm			
POWER SUPPLY	Passive			
RADIATION	Omnidirectional			
POLARIZATION	Linear			
IMPEDANCE	50 Ω			
MAX POWER	35 Watt			
WEIGHT	70 g			
TEMPERATURE	- 40° C to + 85° C			
MOUNTING	Internal, magnetic			

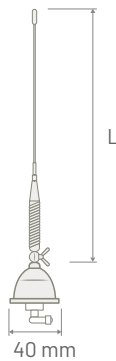
RUBBER



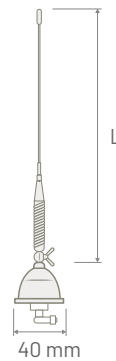
P/N	DESCRIPTION	GSM	UMTS	LTE	IP
7681080	RUBBER LTE	•	•	•	67

TECHNICAL SPECIFICATION	GSM	UMTS	LTE
FREQUENCY	876-935 / 1710-1880 MHz	1900-2025 / 2110-2200 MHz	698-960 / 1710-2160/ 2490-2690 MHz
CONNECTOR	FAKRA Male Bordeaux		
CABLE TYPE	RG 174		
CABLE LENGTH	110 mm		
IMPEDANCE	50 Ω		
GAIN	Peak: 2 dBi		
VSWR	3,2:1		
MOUNTING	Internal adhesive		

EMERGENCY SERVICES



1



2

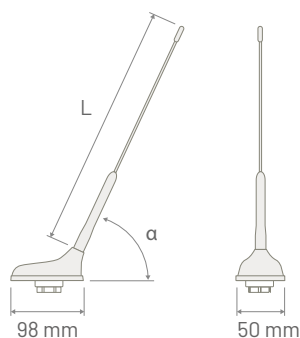
IMG	P/N	DESCRIPTION	VHF UHF TETRA	70/80 MHZ	ROD LENGTH (L) mm	ROD TYPE	COACHWORK DRILLING mm
1	7771010	ES TUNABLE	•		655	Stainless steel	Round: 19
2	7640006	ES 70/80 MHZ		•	950	Fiberglass	Round: 19

TECHNICAL SPECIFICATION	VHF - UHF - TETRA	70/80 MHZ
FREQUENCY	VHF: 146-174 MHz UHF: 430-470 MHz TETRA: 380-430 MHz	70 - 80 MHz
CONNECTOR	Extension cable without connector	TNC F
CABLE TYPE	RG 58	Without extension cable
CABLE LENGTH	5000 mm	-
IMPEDANCE	50 Ω	50 Ω
GAIN	2 dBi	0 dBi
VSWR	< 1,5:1	2:1
MAX POWER	100 Watt	100 Watt
MOUNTING	On roof / Pillar / Fender	On roof / Pillar / Fender

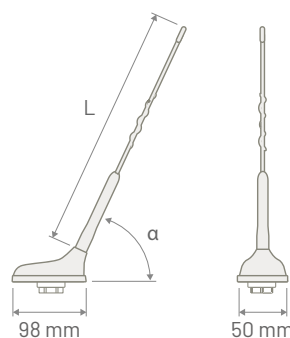
NOTES

P/N 7771010 Omnidirectional 1/4 lambda type - tunable rod
 P/N 7640006 Optional extension cable P/N 7583040 (Type: RG 58 - Length: 5000 mm - Connector: TNC Male 90°)

16V TRIPLEX



1

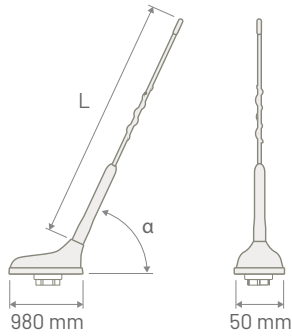


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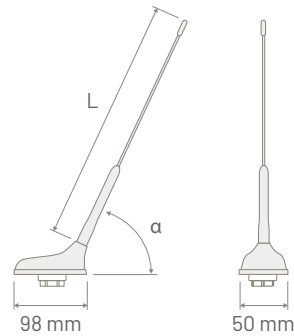
IMG	P/N	DESCRIPTION					ROD LENGTH (L) mm	ROD THREAD	ROD TYPE	BASE ANGLE (α)	IP
			VHF	UHF	GSM	GNSS					
1	7771004	TRIPLEX UHF		•	•	•	265	M6	Smooth	60°	67
2	7771005	TRIPLEX VHF	•		•	•	380	M6	Antinoise	60°	67

TECHNICAL SPECIFICATION	VHF	UHF	GSM	GNSS
FREQUENCY	146 - 174 MHz	430 - 470 MHz	876-935 / 1710-1880 MHz	1559 - 1610 MHz
ANTENNA CONNECTOR	FAKRA Male Green	FAKRA Male Green	FAKRA Male Bordeaux	FAKRA Male Blue
ANTENNA CABLE TYPE	RG 174	RG 174	RG 174	RG 174
ANTENNA CABLE LENGTH	200 mm	200 mm	200 mm	220 mm
EXTENSION CABLE TYPE	RG 58	RG 58	RG 58	RG 174
EXTENSION CABLE LENGTH	5000 mm	5000 mm	5000 mm	5000 mm
EXTENSION CABLE CONNECTOR	FAKRA Female Green FME Female		FAKRA Female Bordeaux FME Female	FAKRA Female Blue FME Female
POWER SUPPLY	-	-	-	3 - 5 Volt
CONSUMPTION	-	-	-	45 mA max
IMPEDANCE	50 Ω	50 Ω	50 Ω	50 Ω
GAIN	0 dBi	-1 dBi	Peak: 3 dBi	30 dBi
VSWR	1,5:1	2:1	3:1	1,5:1
MAX POWER	20 Watt	10 Watt	4 Watt	-
MOUNTING	On roof			
COACHWORK DRILLING	Square: 15 x 15 mm - Round: 19 mm			

16V COMBI



1

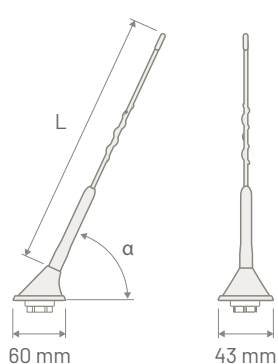


2

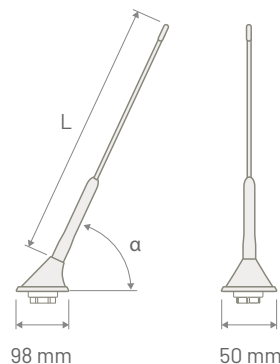
IMG	P/N	DESCRIPTION	VHF	UHF	GNSS	ROD LENGTH (L) mm	ROD THREAD	ROD TYPE	BASE ANGLE (α)	IP
1	7771000	COMBI VHF	•		•	380	M6	Antinoise	60°	67
2	7771001	COMBI UHF		•	•	265	M6	Smooth	60°	67

TECHNICAL SPECIFICATION	VHF	UHF	GNSS
FREQUENCY	146 - 174 MHz	430 - 470 MHz	1559 - 1610 MHz
ANTENNA CONNECTOR	FAKRA Male Green	FAKRA Male Green	FAKRA Male Blue
ANTENNA CABLE TYPE	RG 174	RG 174	RG 174
ANTENNA CABLE LENGTH	250 mm	200 mm	250 mm
EXTENSION CABLE TYPE	RG 58	RG 58	RG 174
EXTENSION CABLE LENGTH	5000 mm	5000 mm	5000 mm
EXTENSION CABLE CONNECTOR	FAKRA Female Green - FME Female	FAKRA Female Green - FME Female	FAKRA Female Blue - SMB Female
POWER SUPPLY	-	-	3 - 5 Volt
CONSUMPTION	-	-	45 mA max
IMPEDANCE	50 Ω	50 Ω	50 Ω
GAIN	-1 dBi	0 dBi	30 dBi
VSWR	1.5:1	2:1	1,5:1
MAX POWER	20 Watt	20 Watt	-
MOUNTING	On roof		
COACHWORK DRILLING	Square: 15 x 15 mm - Round: 19 mm		

16V MONO



1



2

IMG	P/N	DESCRIPTION	VHF	UHF	ROD LENGTH (L) mm	ROD TYPE	ROD THREAD	BASE ANGLE (α)	IP
1	7771002	MONO VHF	•		380	Antinoise	M6	60°	68
2	7771003	MONO UHF		•	265	Smooth	M6	60°	68

TECHNICAL SPECIFICATION	VHF	UHF
FREQUENCY	146 - 174 MHz	430 - 470 MHz
ANTENNA CONNECTOR	FAKRA Male Green	FAKRA Male Green
ANTENNA CABLE TYPE	RG 174	RG 174
ANTENNA CABLE LENGTH	200 mm	200 mm
EXTENSION CABLE TYPE	RG 58	RG 58
EXTENSION CABLE LENGTH	5000 mm	5000 mm
EXTENSION CABLE CONNECTOR	FAKRA Female Green - FME Female	FAKRA Female Green - FME Female
IMPEDANCE	50 Ω	50 Ω
GAIN	-1 dBi	0 dBi
VSWR	1.5:1	2.1:1
MAX POWER	20 Watt	20 Watt
MOUNTING	On roof	
COACHWORK DRILLING	Square: 15 x 15 mm - Round: 19 mm	