



ISO 9001:2008/FAA Approved Facility

High Gain Iridium/Inmarsat/GPS Helix Antenna

P/N: S73IR1616RR-P-XTBTB-1 Rev B

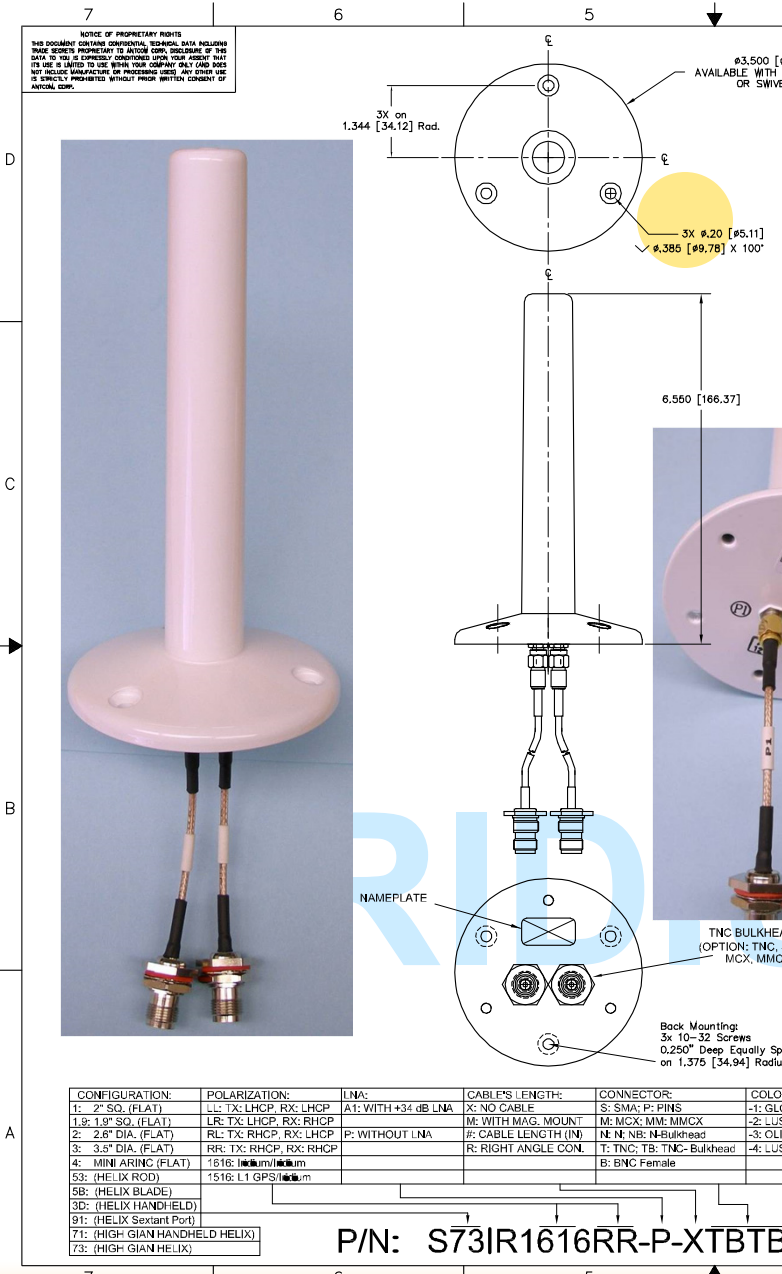
3.5" Diameter x 6.6" Tall, Pipe/Flat Mount Configuration

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

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ELECTRICAL:

FREQUENCY (MHz):	(1227.60 ±15)	(1542.50 ±17.5)	(1575.42 ±15)	(1602-1616)	(1610-1626)	(1642.50 ±17.5)
GAIN (dBic) in FS	L2 GPS	Rx L-Band	L1 GPS	GLONASS	IRIDIUM	Tx INMARSAT
@ 90° (Zenith):	-13.5	-5.4	-4.2	-3.2	-3.0	-3.8
@ 10° Elevation:	-13.6	-5.5	-4.3	-3.3	-3.1	-3.9
@ 20° Elevation:	-12.3	-4.2	-3.0	-2.0	-1.8	-2.6
@ 30° Elevation:	-11.6	-3.5	-2.3	-1.3	-1.1	-1.9
@ 45° Elevation:	-11.6	-3.5	-2.3	-1.3	-1.1	-1.9
@ 70° Elevation:	-12.9	-4.8	-3.6	-2.6	-2.4	-3.2

AXIAL RATIO (dB)	1 to 2
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

- SIZE:** BASE DIAMETER = 3.50 in. [88.90 mm], HEIGHT = 6.550 in. [166.37 mm]
- WEIGHT:** 8.2 oz. (232 g)
- FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL, OVER ANODIZED (MIL-A-8625F, Type II Class II) BASE
- COLOR:** GLOSS WHITE #17925 PER FED-STD-595B, LUSTERLESS GRAY #36320 PER FED-STD-595B, OLIVE DRAB GREEN #34031 PER FED-STD-595B, LUSTERLESS BLACK #37038 PER FED-STD-595B
- MATERIAL:** 6061-T6 ALUMINUM ALLOY BASE, COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
- CONNECTOR:** TNC BULKHEAD CONNECTORS, (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)
- MOUNTING:** FLAT, OR FIXED PIPE (3/4"-1.0" Dia.) MOUNT (PROVIDED)

ENVIRONMENTAL:

- TEMPERATURE:** -67 °F TO +185 °F [-55 °C TO +85 °C]
- ALTITUDE:** 70,000 ft.
- VIBRATION:** > 30 G's
- WIND SPEED:** 135 Miles/hr
- LEAKAGE:** HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QTY	DESCRIPTION	PART NO	FINISH	ITEM NO
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	5
1				4
1	3G Neoprene-EPDM-Blend Gasket	3G15P1001-3G	-	3
1	VERTICAL/HORIZONTAL ANTENNA MOUNT	MTR-2		2
1	OPTIONAL VERTICAL ANTENNA MOUNT	MTR-1	-	1

CONFIGURATION:	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8: 1.8" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP		M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	1516: 1.1 GPS			B: BNC Female	
53: (HELIX ROD)	1516: 1.1 GPS				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					
91: (HELIX Sextant Port)					
71: (HIGH GAIN HANDHELD HELIX)					
73: (HIGH GAIN HELIX)					

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .001 .015 ± 1°	DESIGN	DRAWN	APPROVED	DATE
TOLERANCE SURFACES	DATE	DATE	DATE	DATE
DO NOT SCALE DRAWING				

ANTCOM CORP. TORRANCE CALIFORNIA

DUAL CHANNEL, IRIDIUM/GPS/GLONASS/INMARSAT HELIX ANTENNA

REV: D 3CVE1 S73IR1616RR-P-XTBTB-1 B

SCALE: 1/1 SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas