



ISO 9001:2008/FAA Approved Facility

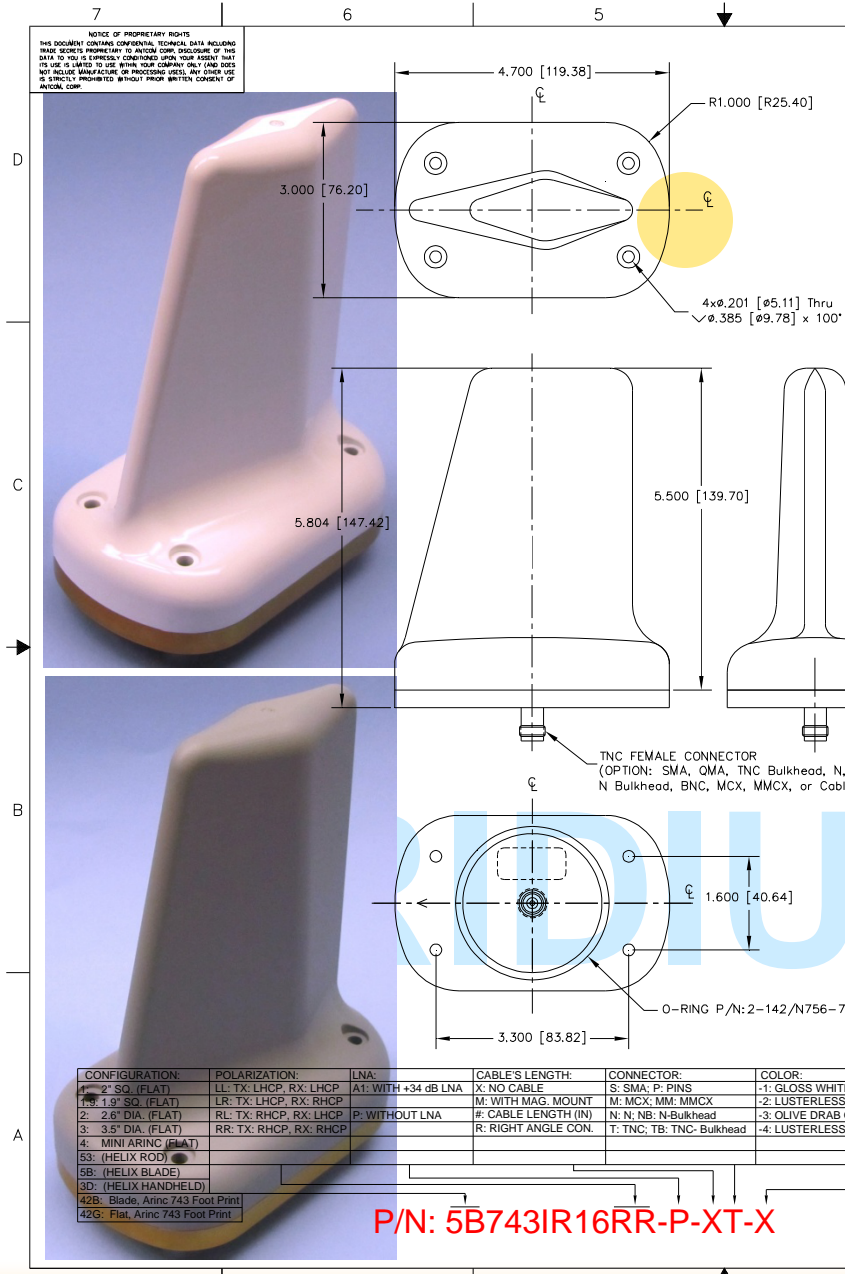
Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

IRIDIUM/Inmarsat/GPS Antennas, P/N: 5B743IR16RR-P-XT-X 5.8" Tall Blade 743 Arinc Configuration



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SPECIFICATIONS

ZONE		REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY (MHz):	(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626)	(1227.60 ±15)
GAIN (dBic) in FS/4ft GP	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM	L2 GPS
@ 90° (Zenith):	+1.1/+3.7	+0.7/+1.5	-0.3/0.0	+0.5/+2.9	+0.1/+1.1	-5.0
@ 10° Elevation:	-0.9/+0.0	-1.6/-1.3	-1.9/-1.0	-1.3/+0.2	-1.6/-0.8	-6.5 to -11.5
@ 20° Elevation:	-0.2/+2.0	-0.8/+1.0	-1.1/+1.2	-0.5/+2.4	-0.8/+1.2	-6.2 to -9.2
@ 30° Elevation:	+0.3/+2.0	-0.2/+1.0	-0.8/+0.4	+0.1/+2.1	-0.7/+1.1	-5.7 to -7.7
@ 45° Elevation:	+0.6/+1.5	+0.3/+0.6	-0.7/-0.8	-0.1/+1.0	-0.3/-0.3	-4.6 to -6.0
@ 70° Elevation:	+0.3/+1.3	+0.3/+0.4	-1.6/0.0	-0.3/+1.1	-0.7/0.0	-4.0
BEAM WIDTH (3dB)	173/155 Deg.	173/155 Deg.	180/162 Deg.	180/162 Deg.	180/162 Deg.	(107 to 170) Deg.
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 5
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.5:1					
DC GROUNDING:	YES (LIGHTNING PROTECTION)					

MECHANICAL:

SIZE: WIDTH: 3.00 in. [76.20 mm], LENGTH: 4.70 in. [119.38 mm], HEIGHT: 5.8 in. [147.4 mm]

WEIGHT: 15.2 oz. (430.9 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F CLASS 1A

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: TNC FEMALE (OPTION: SMA, QMA, TNC Bulkhead, N, N Bulkhead, BNC, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
70,000 ft.

VIBRATION: > 30 G's
HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

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

ACCEPTANCE TEST PROCEDURE:

ATP-GPS-L1L2-100

CONFIGURATION:	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: RHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	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		F: 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)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					
42B: Blade, Arinc 743 Foot Print					
42G: Flat, Arinc 743 Foot Print					

P/N: 5B743IR16RR-P-XT-X

QTY	DESCRIPTION	PART NO	FINISH	REQ
1	0-RING	2-142/N756-75	-	2
4	MOUNTING SCREWS (10-32, 3/4")	MS24693C274		1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES	ORIGINALLY DESIGNED	DATE
± 1/64 .005 .005 ± .1°	S. HUYNH	OCT-30-03
TOLERANCE SHV PER ANSI Y14.5 REMOVE ALL BURRS BREAK ALL EDGES .005 TO .015 FILED & POL TO # 400 SCREEN THREADS PER MIL-S-8879 DOTS ON A DIMENSION & .25/.003 MACHINED SURFACES 12/	S. HUYNH	OCT-30-03
DO NOT SCALE DRAWING	UPDATED	DATE
	P. Tran	JAN-15-13
	APPROVED	DATE
	S. HUYNH	JAN-15-13

ANTCOM CORP.		TORRANCE CALIFORNIA
AIRBORNE, Arinc 743 Foot Print		
IRIDIUM/GPS/GLONASS/		
INMARSAT HELIX ANTENNA		
REV	DATE	BY
D	3CVE1	S. HUYNH
SCALE 1/1		SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas