

TELEX[®]

TELEX COMMUNICATIONS, INC.

8601 East Cornhusker Highway, Lincoln, NE 68507

ORDER No. 2444AA**14 dBi Directional WLAN Antenna**

020424

PN 803237-1

INSTRUCTION SHEET

General Description

This antenna was designed for WLAN applications for frequencies of 2400 MHz to 2500 MHz. The antenna has a beamwidth of 96 degrees with a gain of 14.5 dBi when measured at the standard type-N coax connector.

This antenna's mounting bracket features a 0 to 20 degree down tilt adjustment. It is designed to mount to a round mast.

SPECIFICATIONS

Electrical:

Frequency	2400-2500 MHz
VSWR.....	nominal 1.6:1, maximum 2.0:1
Nominal Impedance	50 ohms
Nominal Gain	14.5 dBi
Half-power H-Plane Beamwidth	96 degrees
Half-power E-Plane Beamwidth	9 degrees
Polarization	Vertical
Maximum Power	10 watts

Mechanical:

Size (without mount).....	5 1/2" wide x 28 1/2" long x 5 1/4" deep
Mounting method	adjustable bracket (0 to -20 degrees) with SS U-bolts, 2.0 inch O.D. max.
Connector	type N female
Wind survival (per ELA-222-F at 100' height)	125 mph
Ice, snow	0.5" ice @ 65 mph
Temperature range	-40 to +60 degrees C
Humidity	5% - 95% (non-condensing)

Since it is the intent of TELEX COMMUNICATIONS, INC. to continually improve its products, Telex reserves the right to make specification and design changes without notice.

General Precautions

Use Caution when selecting an antenna location so as to avoid possible contact with electrical power lines. Refer to the National Electrical Code for proper grounding of the antenna mast.

Part No.	Description	Qty
540113	1/4-20 2" U-bolt	2
561177	1/4-20 lockwasher	14
554099	1/4-20 hex nut	4
566344	1/4-20 flatwasher	4
506708	1/4-20 x 1/2 bolts	10
150724	Mast bracket	1
150725	Antenna bracket	1

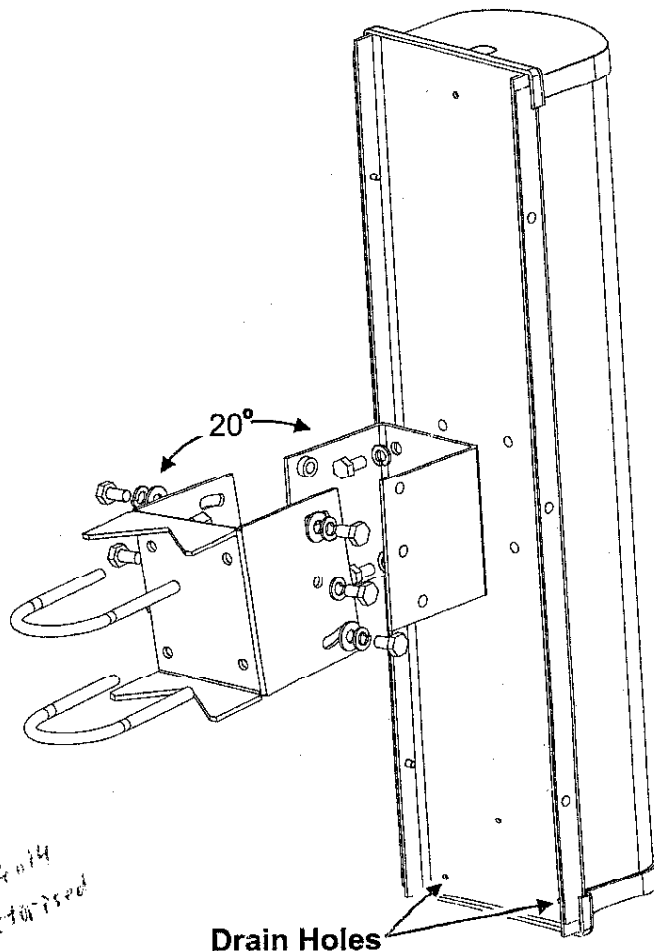
Assembly and Mounting

Assemble the antenna mast bracket and the antenna bracket using the 1/4-20 bolts (6), lockwashers (6), and flatwashers (4). Attach this assembly to the antenna base plate using the remaining 1/4-20 bolts (4) and lockwashers (4). Attention must be given to bracket assembly's rotation of angle with orientation to drain holes in antenna base plate to obtain 20 degree downward tilt. Attach antenna with mounting bracket assembly to antenna mast using U-bolts (2), lockwashers (4), and nuts (4).

To adjust antenna from 0-20 degrees, loosen the bolts (6) on bracket assembly and position at desired degree of angle. Torque all hardware to 7 ft-lbs.

Attach cable (not supplied) to the type-N connector. Use cable ties or electrical tape to properly strain relieve the antenna connector. For outdoor applications, use water-proofing tape (3M® brand recommended) to permanently waterproof the coax connector.

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