

AA3140

PCB Log Periodic Antenna

TransCore's AA3140 Printed Circuit Board (PCB) Log Periodic Antenna broadcasts and receives radio frequency (RF) signals in the 845 to 950 MHz band. The AA3140 antenna is a compact, low gain, wide beam-width antenna ideal for installations requiring maximum coverage at close range (up to 20 ft).

For installation requiring a relatively symmetrical, three-dimensional reading area, the AA3140 PCB Log Periodic Antenna offers a broadcast pattern of similar configuration and dimension in both the horizontal 90° and vertical 60° planes.

A low-profile weatherproof radome provides protection from harsh environmental conditions, including snow, ice, and strong winds. The coated outer surface of the radome has favorable electrical characteristics and high resistance to ultraviolet (UV) radiation. All aluminum materials are anodized for maximum reliability and corrosion resistance. Hardware and fastenings are stainless steel.

The AA3140 antenna's heavy aluminum mounting casting allows installation for vertical or horizontal polarization.



Features

- ▶ Maximum broadcast coverage at close range
- ▶ Symmetrical broadcast pattern
- ▶ Rugged weatherproof enclosure
- ▶ Corrosion and chemical resistant
- ▶ Vertical or horizontal polarization

Applications

- ▶ Train positioning
- ▶ Rail Automatic Equipment Identification (AEI)

AA3140 PCB Log Periodic Antenna

COMMUNICATIONS

Frequency Range

845 to 950 MHz

Gain

8 dBi

Polarization

Vertical or horizontal

VSWR

1.5:1

Half-Power Beam Width

E-Plane: 60°

H-Plane: 90°

HARDWARE FEATURES

Connector

Type N female

PHYSICAL

Dimensions

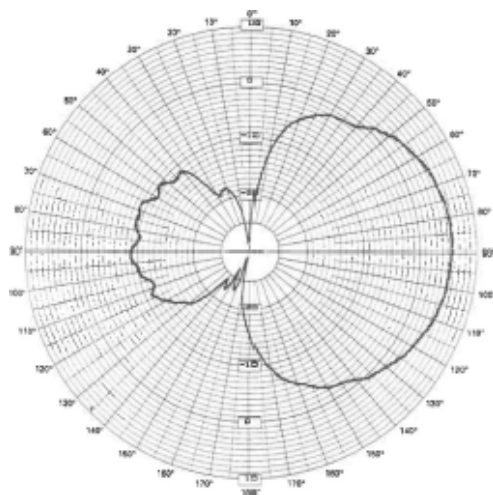
Size: 10.5 x 2.5 x 10.5 in. (26.7 x 6.4 x 26.7 cm)

Weight: 2.5 lb (1.12 kg)

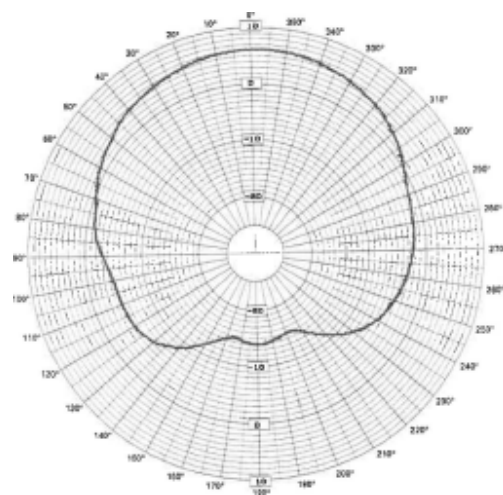
Enclosure

Weatherproof radome

Antenna Field Pattern



Vertical Plane Pattern (vertical polarization)



Horizontal Plane Pattern (vertical polarization)

For more information:

Sales Support

800.923.4824

Technical Support

505.856.8007

transcore.com

