

SEPTEMBER  
**2023**

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Optitera Global Networks

## HIGH SPEED BACKHAUL LONG RANGE DISH ANTENNA

Empowering Your Radio

Prepared By:  
**Aditya Prakash**

**Optitera Long Range Dish Antenna**  
LRA Series Modular 29/32 dBi



+911204225845



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Part No.  
LRA-29M/M

## Functional description:

As a fundamental part of a wireless communication system, the Antenna is a device that converts the RF signal to an equivalent electromagnetic wave for transmitting into & receiving from free space. Radio wave communication needs transmitting as well as Receiving Antennas. It acts as a transducer that converts an RF signal into an EM wave at the transmitter and an EM wave back to an electrical signal at the receiver. Various Electrical and mechanical parameters are there which determines the use of the Antenna in a wireless PTP or PMP communication setup.



**Ordering Information** :- LRA-29M/32M

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Tel:+911204225845



Part No.  
LRA-29M

## Technical Specification

### Electrical Parameters

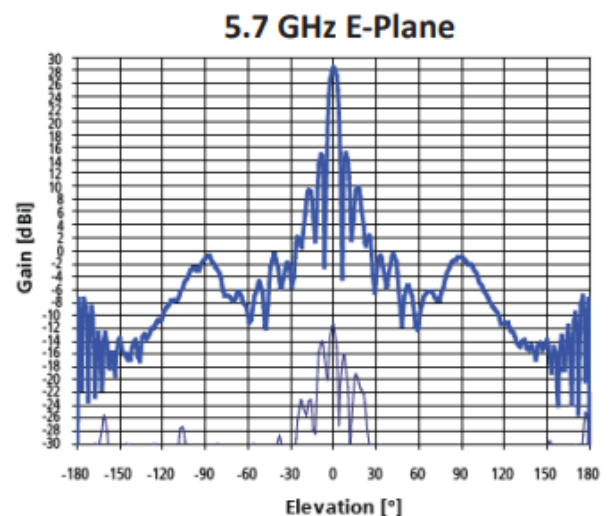
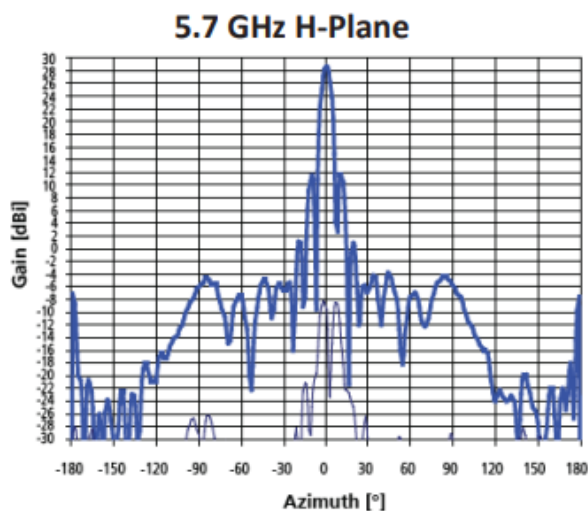
Frequency	4.9–6.4 GHz
Gain (dBi)	2X29
VSWR (Max)	1.2:1
Cross –Pol Suppression	>25
Polarization	Linear V & H
Port to Port isolation (dB)	>30
Max Power Input (Watts)	50
Front to Back Ratio (dB)	>35
Safety Requirements	As Per IEC Standards
Mount	twist-on
Beam Width (Degree)	6

### Mechanical Parameters

Dimension (MM)	650 MM
Antenna Material	Alloy (FE+AL)
Gross Weight (KG)	8
Packing Dimension (inch)	26.5X26.5X8
Mounting Hardware	MS Galvanized & Power Coated
Mounting Style	Tower & Pole
Mounting Pole Diameter(MM)	100 Max
Mounting Adjustment	H Plane $\pm 45^\circ$ V Plane $\pm$ Fine $10^\circ$

### Environmental Parameters

Temperature Range( $^\circ$ C)	-50 to +70
Wind Speed (KM/H)	250
Humidity	95% No Condensation



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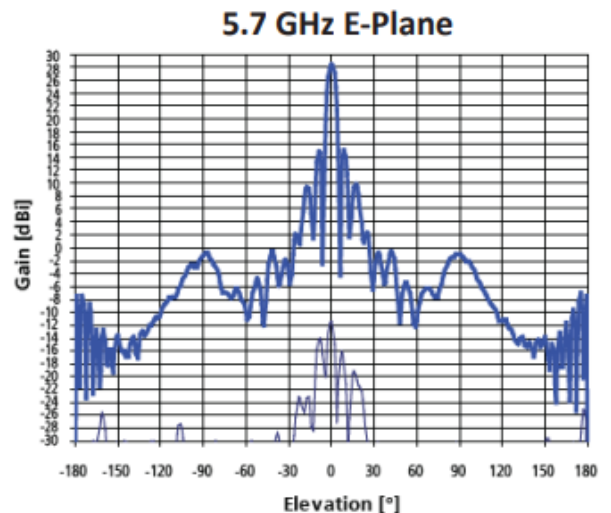
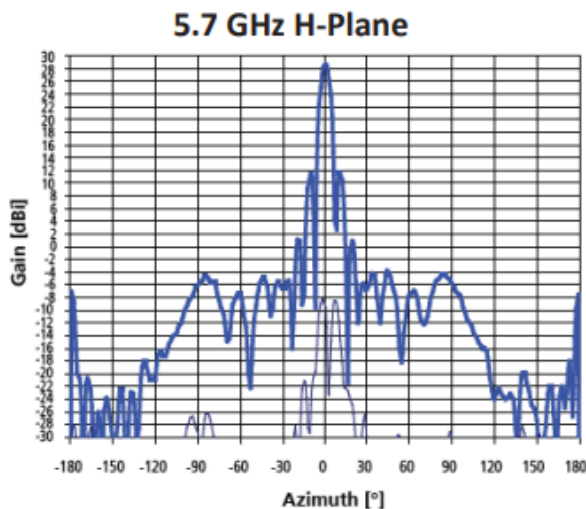
Frequency	4.9–6.4 GHz
Gain (dBi)	2X32
VSWR (Max)	1.2:1
Cross –Pol Suppression	>28
Polarization	Linear V & H
Port to Port isolation (dB)	>30
Max Power Input (Watts)	50
Front to Back Ratio (dB)	>40
Safety Requirements	As Per IEC Standards
Mount	twist-on
Beam Width (Degree)	4

### Mechanical Parameters

Dimension (MM)	900 MM
Antenna Material	Alloy (FE+AL)
Gross Weight (KG)	12
Packing Dimension (inch)	38.5X38X12
Mounting Hardware	MS Galvanized & Power Coated
Mounting Style	Tower & Pole
Mounting Pole Diameter (MM)	100 Max
Mounting Adjustment	H Plane $\pm 45^\circ$ V Plane $\pm$ Fine $10^\circ$

### Environmental Parameters

Temperature Range( $^\circ$ C)	-50 to +70
Wind Speed(KM/H)	250
Humidity	95% No Condensation



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