

Ultra Low Profile MiMo Antenna WiFi/5G

LPM[X]-24-72-2[X]

- 2x2, 3x3 or 4x4 MiMo antenna
- Covers WiFi, 4G and 5G frequencies from 2.3-7.2GHz
- Ultra low profile
- Meets IP69K and IK10



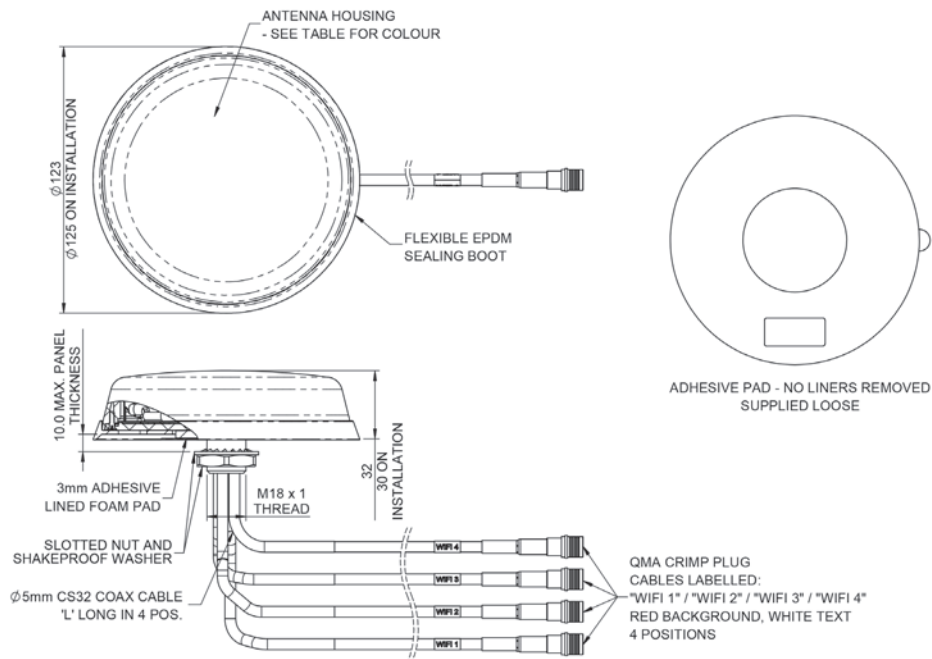
The LPM[X]-24-72-2[X] range has been designed to provide an optimised antenna solution for applications requiring 2x2, 3x3 or 4x4 MiMo capability. The compact, robust, low-profile housing contains four elements covering WiFi 6e, 4G and 5G frequencies from 2300-7125MHz with optimised isolation and low correlation co-efficient.

The antenna can be fitted on a conductive or non-conductive panel for device mounted, fixed site or vehicle applications.

The antenna is supplied with integrated flame retardant CS32 cables (Compliant to UN ECE R 118 and EN45545-2) and a halogen free flame retardant radome which is ingress protected to IP69K and vandal resistant to IK10 when correctly installed. It has approvals to both EN45545-2 and EN50155 for use in rolling stock, light rail and trackside applications.

Technical Drawing

LPM4VAR-24-72-VARQMAP Shown



Ultra Low Profile MiMo Antenna WIFI/5G

LPM[X]-24-72-2[X]

Product Data

Part No.	LPM4W-24-72-2QMAP	LPM3W-24-72-2QMAP	LPM2W-24-72-2QMAP
Frequency Range	Ports 1-4 4x 2300-7125MHz	3x 2300-7125MHz	2x 2300-7125MHz
Typical VSWR* (all elements)	< 2:1		
Typical Isolation* (worst case)	> 10dB		
Pattern	Omni-directional		
Nominal Impedance	50Ω		
Max Input Power	10W		
Mechanical Data			
Dimensions	Diameter	123mm (4.84")	
	Height	32mm (1.26")	
Operating Temp	-40° / +80°C (-40° / 176°F)		
Material	LEXAN EXL9330		
Colour	White		
IP Rating	IP69K**		
Relative Humidity	95%		
Vandal Protection	IK10		
Approvals Data			
Regulatory Approvals	EN50155:2021 (Dry heat & Cooling, Damp Heat), EN61373:2010 / EN50155:2021 (Shock & Vibration), EN45545:2020- HL3 (flammability)		
Mounting Data			
Fixing	Panel Mount - 18mm (3/4")		
Cable Data			
Comms Cables	Cable Type	CS32 - Flame Retardant to UN ECE R 118 / EN45545-2	
	Diameter	5mm (0.2")	
	Length	2m (6.6')	
	Termination	4x QMA Plugs(m)	3x QMA Plugs(m)

* Typical Isolation and VSWR stated as measured with 0.5m (1.5') of cable in free space.

** When mounted to a sealed panel / enclosure with fitted boot in accordance with installation instructions.

Ultra Low Profile MiMo Antenna WIFI/5G

LPM[X]-24-72-2[X]

PANORAMA  ANTENNAS

Product Data

Part No.	LPM4W-24-72-2RANP	LPM3W-24-72-2RANP	LPM2W-24-72-2RANP
Frequency Range	Ports 1-4 4x 2300-7125MHz	3x 2300-7125MHz	2x 2300-7125MHz
Typical VSWR* (all elements)	< 2:1		
Typical Isolation* (worst case)	> 10dB		
Pattern	Omni-directional		
Nominal Impedance	50Ω		
Max Input Power	10W		
Mechanical Data			
Dimensions	Diameter	123mm (4.84")	
	Height	32mm (1.26")	
Operating Temp	-40° / +80°C (-40° / 176°F)		
Material	LEXAN EXL9330		
Colour	White		
IP Rating	IP69K**		
Relative Humidity	95%		
Vandal Protection	IK10		
Approvals Data			
Regulatory Approvals	EN50155:2021 (Dry heat & Cooling, Damp Heat), EN61373:2010 / EN50155:2021 (Shock & Vibration), EN45545:2020- HL3 (flammability)		
Mounting Data			
Fixing	Panel Mount - 18mm (3/4")		
Cable Data			
Comms Cables	Cable Type	CS32 - Flame Retardant to UN ECE R 118 / EN45545-2	
	Diameter	5mm (0.2")	
	Length	2m (6.6')	
	Termination	4x Right Angle N Plugs(m)	3x Right Angle N Plugs(m)

* Typical Isolation and VSWR stated as measured with 0.5m (1.5') of cable in free space.

**When mounted to a sealed panel / enclosure with fitted boot in accordance with installation instructions.

Ultra Low Profile MiMo Antenna WIFI/5G

LPM[X]-24-72-2[X]

Product Data

Part No.	LPM4W-24-72-2SP	LPM3W-24-72-2SP	LPM2W-24-72-2SP
Frequency Range	4x 2300-7125MHz	3x 2300-7125MHz	2x 2300-7125MHz
Ports 1-4			
Typical VSWR* (all elements)	< 2:1		
Typical Isolation* (worst case)	> 10dB		
Pattern	Omni-directional		
Nominal Impedance	50Ω		
Max Input Power	10W		
Mechanical Data			
Dimensions	Diameter	123mm (4.84")	
	Height	32mm (1.26")	
Operating Temp	-40° / +80°C (-40° / 176°F)		
Material	LEXAN EXL9330		
Colour	White		
IP Rating	IP69K**		
Relative Humidity	95%		
Vandal Protection	IK10		
Approvals Data			
Regulatory Approvals	EN50155:2021 (Dry heat & Cooling, Damp Heat), EN61373:2010 / EN50155:2021 (Shock & Vibration), EN45545:2020- HL3 (flammability)		
Mounting Data			
Fixing	Panel Mount - 18mm (3/4")		
Cable Data			
Comms Cables	Cable Type	CS32 - Flame Retardant to UN ECE R 118 / EN45545-2	
	Diameter	5mm (0.2")	
	Length	2m (6.6')	
	Termination	4x SMA Plugs(m)	3x SMA Plugs(m)

* Typical Isolation and VSWR stated as measured with 0.5m (1.5') of cable in free space.

**When mounted to a sealed panel / enclosure with fitted boot in accordance with installation instructions.

Ultra Low Profile MiMo Antenna WIFI/5G

LPM[X]-24-72-2[X]

PANORAMA  ANTENNAS

Product Data

Part No.	LPM4W-24-72-2RPSP	LPM3W-24-72-2RPSP	LPM2W-24-72-2RPSP
Frequency Range	Ports 1-4 4x 2300-7125MHz	3x 2300-7125MHz	2x 2300-7125MHz
Typical VSWR* (all elements)	< 2:1		
Typical Isolation* (worst case)	> 10dB		
Pattern	Omni-directional		
Nominal Impedance	50Ω		
Max Input Power	10W		

Mechanical Data

Dimensions	Diameter	123mm (4.84")
	Height	32mm (1.26")
Operating Temp	-40° / +80°C (-40° / 176°F)	
Material	LEXAN EXL9330	
Colour	White	
IP Rating	IP69K**	
Relative Humidity	95%	
Vandal Protection	IK10	

Approvals Data

Regulatory Approvals EN50155:2021 (Dry heat & Cooling, Damp Heat), EN61373:2010 / EN50155:2021 (Shock & Vibration), EN45545:2020- HL3 (flammability)

Mounting Data

Fixing Panel Mount - 18mm (3/4")

Cable Data

Comms Cables	Cable Type	CS32 - Flame Retardant to UN ECE R 118 / EN45545-2		
	Diameter	5mm (0.2")		
	Length	2m (6.6')		
	Termination	4x Rev Pol SMA Plugs	3x Rev Pol SMA Plugs	2x Rev Pol SMA Plugs

* Typical Isolation and VSWR stated as measured with 0.5m (1.5') of cable in free space.

**When mounted to a sealed panel / enclosure with fitted boot in accordance with installation instructions.