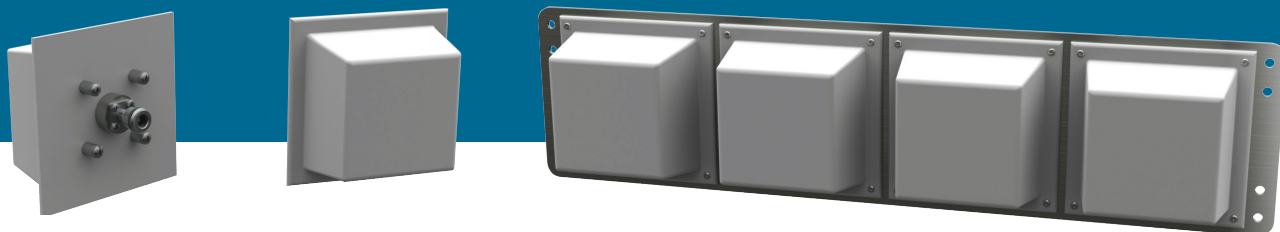


ANTENNAS PATCH

ANT-AOF
ANT-SIXT



The antennas that PM Microwave offers for broadcasting applications are mainly in 2.1 ÷ 2.7 GHz band for Multichannel Multipoint Distribution Service (MMDS).

The portfolio includes both illuminators AOF for standard OFFSET or PRIME FOCUS reflective dishes whose diameter is between 0.65 and 2 m, and radiating arrays SIXT for high gain systems with unidirectional, omnidirectional, horizontal and vertical radiation diagrams.

TECHNICAL SPECIFICATIONS

	AOF-N-M-065-FD	AOF-N-M-095-FD	AOF-N-M-120-FD	AOF-N-M-150-FD
Main dish	Offset / Prime Focus reflector 0.65 m	Offset / Prime Focus reflector 0.95 m	Offset / Prime Focus reflector 1.2 m	Offset / Prime Focus reflector 1.5 m
Frequency range	2.1 ÷ 2.7 GHz	2.1 ÷ 2.7 GHz	2.1 ÷ 2.7 GHz	2.1 ÷ 2.7 GHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Gain (mid-band)	22.6 dBi	24.6 dBi	26.5 dBi	28.3 dBi
VSWR	< 1.25	< 1.25	< 1.25	< 1.25
Polarization	H / V	H / V	H / V	H / V
Max. input power	10 W	10 W	10 W	10 W
Radiation pattern (mid-band)				
-3dB E-plane	10.9°	8.3°	7°	5.8°
-3dB H-plane	10.2°	8.2°	7°	5.8°
Side-lobe suppression	< 19 dB	< 19 dB	< 22 dB	< 25 dB
Front-to-back ratio	< 25 dB	< 30 dB	< 35 dB	< 42 dB
Input connector	N female	N female	N female	N female
Dimensions	110×110×105 mm	110×110×105 mm	110×110×105 mm	110×110×105 mm
Weight	0.4 kg	0.4 kg	0.4 kg	0.4 kg
Material	Steel, Aluminium, Polyester	Steel, Aluminium, Polyester	Steel, Aluminium, Polyester	Steel, Aluminium, Polyester
Protection degree	IP65	IP65	IP65	IP65

	SIXT-HVD 4H / SIXT-HVD 4V
Frequency range	2.3 ÷ 2.7 GHz
Impedance	50 Ω
Gain (mid-band)	16 dBi
VSWR	< 1.3
Polarization	H / V
Max. input power	200 W
Radiation pattern (mid-band)	
-3dB E-plane	18°
-3dB H-plane	68°
Side-lobe suppression	< 18 dB
Input connector	N female
Dimensions	490×120×132 mm
Weight	1.8 kg
Materials	Steel, Aluminium, Brass, Polyester
Wind surface	0.6 m ²
Lighting protection	All metal parts are DC grounded
Icing protection	Full radome
Radome colour	White
Protection degree	IP65