



Technical Note

ASWipLL 5.8

Wireless IP-Based Local Loop System

Third-Party External Antennas for use in FCC Markets (5.8 GHz)

Leading the World in Wireless DSL

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Contents

1. Introduction 1

2. External Antennas Specifications 1

1. Introduction

This document provides technical specifications of third-party external antennas for ASWipLL 5.8 operating in the 5.8 GHz band.

2. External Antennas Specifications

Antenna P/N Type	MT-484027/NV	MT-484027/NH	MT-484034/NH	MT-484034/NV	MT-484026/NV	MT-484033/NH
Electrical:			Preliminary			
Frequency band (GHz)	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875
Gain (dBi)	14	14	15	15	16	16.5
Polarity	Vertical	Horizontal	Horizontal	Vertical	Vertical	Horizontal
Port to Port isolation (dB min.)	--	--	--	--	--	--
AZ/EL BW (degree)	86/10	90/10	120/6	120/6	60/10	60/11
ETSI	CS3	CS2	CS3	CS3	CS3	CS3
Sidelobe Level (dB max.)	-30@-/+135Deg	-28@-/+135Deg	CS3	CS3	-30@-/+90 Deg	-25@-/+90 Deg
Cross Polarization Level (dB max.)	-25	-25	CS3	CS3	-24	-23
Front to Back Ratio (dB max.)	-30	-30	CS3	CS3	-30	-30
VSWR 50 Ohm	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1
Maximum Input Power	6	6	6	6	6	6
Additional Features	Cosecant Sqr 1st Null >-15dB	Cosecant Sqr 3rd Null >-16dB	Low cost	Low cost	Cosecant Sqr 1st Null >-15dB	Low cost
Mechanical:						
Size (mm)	436x250x10	436x250x10	550x200x60	550x250x17	436x250x10	350x150x30
Weight (kg max.)	2.2	2.2	2	1.5	2.2	1.5
Connector	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting kit	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019

Antenna P/N Type	MT-484033/NV	MT-484032/NV	MT-485005/VHN	MT-485001	MT-485028/N	MT-485002
Electrical:						
Frequency band (GHz)	5.15-5.875	5.15-5.875	5.25-5.875	5.15-5.875	5.15-5.875	5.15-5.875
Gain (dBi)	16.5 +/-0.5	17	18	19	22	23
Polarity	Vertical	Vertical	Dual V+H	Linear V/H	Linear V/H	Linear V/H
Port to Port isolation (dB min.)	--	--	30	--	--	--
AZ/EL BW (degree)	60/11	90/7	17/17	18/18	9/9	9/9
ETSI	CS3	CS3	TS3	--	TS3	TS3
Sidelobe Level (dB max.)	-25@-/+90 Deg	-25@-/+135Deg	-12	-12	TS3	TS3
Cross Polarization Level (dB max.)	-28	-20	-20	-23	TS3	-28
Front to Back Ratio (dB max.)	-35	-30	-30	-35	-35	-32
VSWR 50 Ohm	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1
Maximum Input Power (Watt)	6	6	6	6	6	6
Additional Features	Low cost	Low cost	Dual pol.	Broadband	Broadband Low cost	Broadband High Grade
Mechanical:						
Size (mm)	350x150x30	530x260x11	190x190x30	190x190x30	305x305x15	305x305x15
Weight (kg max.)	1.5	2.5	0.7	0.7	1.5	1.5
Connector	N-Type Female	N-Type Female	2 x N-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting kit	MT-120019	MT-120019	MT-120018/A	MT-120018/A	MT-120018	MT-120018