

## Declaration concerning Antenna Specification

It is hereby declared that the product

Model No.: ImpactX

FCC ID: YML-X7SERIES

fulfills the requirement in FCC test relating to the antenna type.

Provided by Eurofin's Product Service GmbH v.0.2 The device specified above confirms to the FCC recommendations for internal antenna types described below:

**1. Model No. of antenna: Ethertronics M830510**

Type of antenna: Permanently attached

Peak Gain of the antenna: 1.1 dBi (2.4 GHz band), 3.2 dBi (5GHz band)  
 Frequency range: 2400-2500 MHz and 4900-5800 MHz

### Electrical Specifications

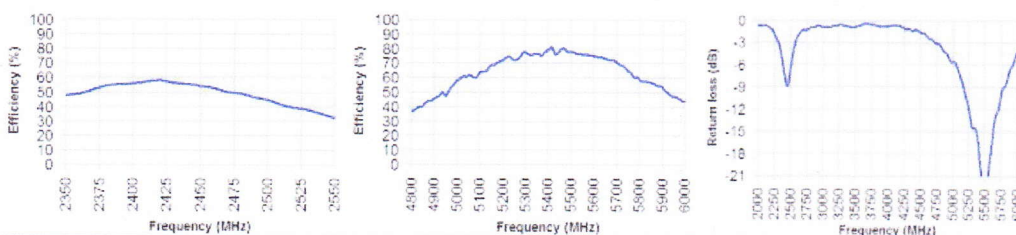
Typical Characteristics  
(inside an enclosure)

WLAN a/b/g Antenna	2.4–2.5 GHz (b/g)	4.9–5.8 GHz (a)
Peak Gain	1.1 dBi	3.2 dBi
Average Efficiency	54%	69%
VSWR Match	2.6:1 max	3.0:1 max
Feed Point Impedance	50 $\Omega$ unbalanced	

### Mechanical Specifications

Size	8.00x3.00x1.33mm
Mounting	Surface mount
Weight	.2 grams
Packaging	Tape & Reel

### Typical Efficiency, Return Loss



**2. Model No. of antenna: Calvus GSM SMD A10340**

Type of antenna: Permanently attached

Peak Gain of the antenna: 1.7 dBi at 862 MHz, 3.0 dBi at 1848 MHz  
Frequency range: 824-960 MHz and 1710-2170 MHz

	Typical performance	Conditions
Peak gain	1.7 dBi @ 862 MHz 3.0 dBi @ 1848 MHz	All data measured on Antenova's reference board, part number A10340-U1  Data given for the 824MHz-960MHz and 1710MHz- 2170MHz frequency ranges
Average gain	-1.8 dBi 824 - 960 MHz  -1.6 dBi 1710-2170 MHz	
Average efficiency 824-960 MHz 1710-2170 MHz	66% 69%	
Maximum Return Loss	-6dB	
Maximum VSWR	3:1	

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The mounting of the antennas are fixed to the radio modules and no other antenna should be used.

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Date: 14/8 2014

Signature:



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