

# MaGiC™ SFP Fiber Extension Modules

## SOLVING THE LAST MILE BANDWIDTH CHALLENGE

The MaGiC-SFP™ (Multi-Gigabit over Coax, Small Form-factor Pluggable) is the most cost-effective solution for last mile connectivity. MaGiC-SFP™ uses existing coaxial cable in the home and/or building, is easy to install and works with existing network equipment. MaGiC-SFP™ extends fiber and coaxial-based networks and has been tested to symmetrical data rates of up to 2.5 Gbps.



### MaGiC-SFP-(M) for Coax using MoCA Technology

#### THE CHALLENGE

Many products that are used to enhance performance do not work with already installed equipment. And new wiring such as fiber and Ethernet add time and cost. In other instances, while claiming gigabit data rates, the actual performance of some products and technologies is asymmetrical and not as advertised.

#### THE SOLUTION

The MaGiC-SFP provides symmetrical gigabit speeds that use existing cabling, work with current equipment, and eliminate the cost of new installation and new equipment.



#### EASY TO INSTALL

Install and deploy MAGIC-SFP in minutes.

#### USE OF EXISTING COAXIAL CABLE

Works over coaxial cable regardless of type or age. Works over RG59, RG6, RG7 and RG11.

#### COST-EFFECTIVE

Dramatically reduces the cost of installation by using existing coaxial cable with field proven open standards. No new wires.

#### RANGE

Up to: 1,000'  
Typical: 300-600'

#### MULTI-GIGABIT PERFORMANCE

2.5 Gbps actual data rates easily deployed within the building or from the curb.

#### QUESTIONS?

Please contact Jim Luciano at  
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or call at 1.215.350.6386.



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## ABSOLUTE MAXIMUM RATINGS

	Min	Max	Unit
Input Voltage Range (Vi)	3.1	3.3	V
Source Current (Is)	0.36	0.89	A
Operating Virtual Junction Temperature Range	-40 C	85 C	Celsius
Storage Temperature Range	-40 C	120 C	Celsius

## PRODUCT FEATURE

Sr. No	Feature	
1.	Support MoCA 2.5	Backward interoperable with MoCA 2.0, 1.5 and 1.0
2.	Interfaces	SFP / SFP+ Interface Port, F-Type Connector
3.	Regulatory Approvals	FCC, CE, UL, CSA
4.	Protection	OCP, OVP and SCP
5.	Max PER	1e-6 / 1e-8
6.	Latency	<6.1mS/<3mS(LLF)

## RF SPECIFICATION

Sr. No	Specification	Limit / Comment
1.	Max Transmit Power	4 dBm
2.	Receiver Sensitivity*	-55 dBm
3.	RF Interface	F- Type Connector
4.	RF Impedance	75 E
5.	RF Frequency Band	400 MHz – 1675 MHz
6.	Modulation	Up to 1024 QAM
7.	Throughput	Up to 1.0 Gbps - 2.5 Gbps



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