

MaGiC™ SFP Fiber Extension Modules SOLVING THE **LAST MILE** BANDWIDTH CHALLENGE



The MaGiC-SFP™ (Small Form-factor Pluggable) is the most cost-effective solution for last mile connectivity. MaGiC-SFP™ uses existing twisted pair wiring in the home and/or building, is easy to install and works with existing network equipment. MaGiC-SFP™ extends fiber and RF coaxial-based networks and has been tested to symmetrical data rates of up to 1.7 Gbps.

MaGiC-SFP-(RF) for RF coaxial cable using G.hn Technology

THE CHALLENGE

Many products that are used to improve performance and reliability 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 wiring, 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 COAX WIRING

Works over coax regardless of type or age.

COST-EFFECTIVE

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

RANGE

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

MULTI-GIGABIT PERFORMANCE

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

QUESTIONS?

Please contact Jim Luciano at
jim.luciano@mdslink.com
or call at 1.215.350.6386.



SCAN FOR DETAILED INFO
mdslink.com

MDS LINK
116 Research Drive
Bethlehem, PA 18015 USA

Mail: jim.luciano@mdslink.com
Web: mdslink.com
Phone: 1.800.467.1394

MaGiC-SFP-(G) for Coax Cable using G.hn Technology



The MaGiC™ continues with MDSlink's G.hn addition to its family of fiber extension SFP's. Introducing MGRF a gigabit Ethernet over Coax module in an SFP (Small Form-factor Pluggable). MGRF combines our high-performance G.hn base band processor, analog front-end (AFE), power supplies, and ESD protection. There are two options for MGRF, 1Gb and 1.7 Gb.

| PRODUCT FAMILY | Part # | Description |
|----------------|---------|---|
| MGRF | MGRF-1G | G.hn Ethernet 1000Base-X SFP with F-type coax jack for RF media |
| | MGRF-2G | G.hn Ethernet 2500Base-X SFP with F-type coax jack for RF media |

PRODUCT FEATURES

- SFF 8432 and INF-8074I SFP MSA compliant.
- Functions as a G.hn Ethernet 1000Base-X or 2500Base-X bridge over coax cable.
- Net data rates up to 1.7 Gbps.
- Power consumption < 2.0 W.
- Compact design SFP (Small Form-factor Pluggable).
- 2-wire interface for Serial ID.
- AES-128 data encryption support.
- K.21 protection for lightning surges.
- Robust die cast housing.
- Bail latch style ejector mechanism with option for push button.
- Configurable for point-to-point and point-to-multipoint.

HARDWARE FEATURES

| | |
|-------------------|--|
| G.hn Chipset | Maxlinear |
| Interface | - 1* 1000/2500Base-X SFP; Firmware for 1000Base-X or 2500Base-X configuration - 1* RF Connector |
| Supply Voltage | 3.3 V nominal; 3.6 V max |
| Power Consumption | < 2 W |
| Weight | < 10 g |

FUNCTION FEATURES

| | |
|--------------------|--|
| Compliant Standard | IEEE 802.3, IEEE802.3u, IEEE802.1q VLAN, IEEE802.1p G.hn : ITU-T G.9960, G.9961 |
| G.hn Speed | PHY: Up to 2 Gbps UDP/TCP: Up to 1.7 Gbps |
| Distance | Twisted Pair: Up to 500 meters |
| Number of MACs | Support Max 512 MAC addresses within one domain |
| Multicast Function | IGMPv3/MLDv2 Snooping |
| Energy-saving | Support power-saving modes |
| Network Management | Support remote management based on TR069 |



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