





APPLICATIONS:

- Retail Item-Level Management
- Manufacturing Lines
- Other Multiple Read-Point Applications

FEATURES:

- Low Insertion Loss
- Configurable as 4 Way or 8 Way
- Added Flexibility
- Excellent Signal Integrity
- Fast Switching Speed

BENEFITS:

- Robust signal Processing
- Straightforward Customization
- 360° Spatial Diversity

Product Overview

The SkyePlus™ MXH expands an HF reader's capability by adding support for up to 8 antennas. Digital control of the MXH is accomplished by either the host processor or reader module allowing any of the 8 antennas to be explicitly addressed using 3 GPIO pins. Additional multiplexers can be added to increase the number of antennas a module can support beyond 8 presenting a scalable solution.

• Low Insertion loss: < 0.7 dB

• Isolation: 45 dB Minimum

• Control Voltage: CMOS/TTL levels

About SkyePlus MXH

The MXH can be equipped with 4 or 8 antenna ports depending on the application requirements. Infrastructure costs are reduced by using the MXH to minimize the number of readers required to support multiple read-points.

Electrical Specifications

Parameter	Frequency	Min	Тур	Max	Units
Insertion Loss	8-20 MHz	 	0.5	0.75	dB
Isolation	8-20 MHz	45	49	 	dB
Return Loss	8-20 MHz		32		dB

Applications

The SkyePlus MXH, used in conjunction with a SkyeTek HF reader, eases integration efforts for those devices requiring multiple read-points by eliminating the need for multiple modules in such applications as:

- Retail Item-Level Management
- Manufacturing Lines
- Other Multiple Read-Point Applications

The MXH compliments SkyeTek HF Tagnostic reader technology which is offered in a variety of form factors making it easy to embed in any device.

SkyeTek, Inc., maker of ReaderWare™, is the leading supplier of RFID reader software and reference designs that enable the

pervasive adoption of RFID technology.

SkyeTek's Tagnostic™ reader technology works with most industry standard tags and smart labels, its low power requirements and a small form factor make it the optimal choice for embedding into new or existing products. SkyeTek's RFID reader technology is available in several formats including reader modules, hardware reference designs, and the ReaderWare™ software suite. SkyeTek markets to OEM

customers in targeted vertical markets

about SkyeTek, visit www.skyetek.com

with several high-volume licensing options available. For more information

or call 720-565-0441.

SkyeTek is based in Colorado.

Our Address: 11030 Circle Point Road
Ste 300, Westminster, CO 80020 USA

About Skyetek:

Sky**Plus** MXH

SkyePlus MXH Specifications

Physical Characteristics

Dimensions (LxWxH)	95.5x70.4x11.3 mm	RF Connections:	50 ohm SMA (input)
	(Including 8 SMAs)	- 4x Output	50 ohm SMA
Weight	TBD	- 8x Output	50 ohm SMA

Absolute Maximum Ratings

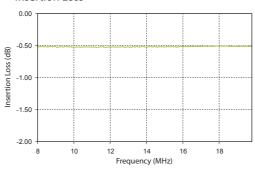
Max Input Power	13.56 MHz	39 dBm
Control Voltage Rang	-0.2 to +5.5 Vdc	
Hot Switching Power Level Vctl = 0/+5V		39 dBm
Channel Temperature		150° C
Continuous Pdiss (T = +85° C) (derate 6 mW/°° C above 85° C)		0.38W
Max Allowed switching Capacity		2W
Thermal Resistance		173°C/W
Storage Temperature		-65 to 150° C
Operating Temperati	-40 to +85° C	

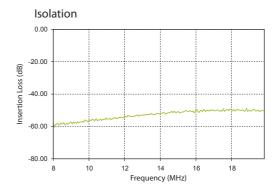
Electrical Characteristics

Power Supply	3.2 – 5.5V
Power	200 μΑ
Consumption	
Operating	13.56 MHz
Frequency	+/- 7 KHz
Digital Inputs	3 inputs
	0/3.3V, 0/5V

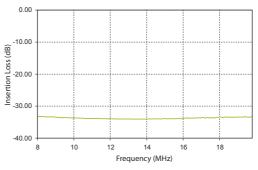
State	Bias Condition
Low	0 to + 0.2 Vdc
High	+3 Vdc
	+5Vdc

Insertion Loss





Return Loss



skyetek

Copyright © 2005 SkyeTek, Inc.

Tagnostic, ReaderWare, and SkyeModule™ are trademarks or registered trademarks of SkyeTek, Inc. All other trademarks or brand names are the properties of their respective holders. Features and specifications are subject to change without notice.

Other Offerings from SkyeTek

SkyeTek provides a variety of reader technology at both 13.56 MHz (HF) and ~900 MHz (UHF). The M1-Mini, also part of the SkyeModule HF line, offers an even smaller design with comparable features. ReaderDNA is a comprehensive reference design available for component level integration of RFID reader technology, including complete design files, BOM, and test fixtures. ReaderWare, an openarchitected software suite residing on all SkyeTek's modules and available with ReaderDNA, provides intelligence to the RFID reader hardware. The SkyeModule M8 is a low power, compact, UHF reader compatible with EPC and ISO transponders. All SkyeModules are controlled via the SkyeTek Protocol, a powerful but simple communication protocol that grants the user access to all features of an RFID transponder. Further, they have been designed with flexible and modular embedded software that allows one to select only the desired features.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

SkyeTek: