rfid as a feature





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
- Minimize Reader Deployment Costs

Product Overview

The SkyePlus™ MXU expands a UHF reader's capability by adding support for up to 8 antennas. Digital control of the MXU 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: <1.4 dB

• Isolation: 30 dB

• Control Voltage: CMOS or TTL Levels

About SkyePlus MXU

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

Electrical Specifications

Parameter	Frequency	Min	Тур	Max	Units
Insertion Loss	860-960 MHz	 	1	1.4	dB
Isolation	860-960 MHz	28	30	 	dB
Return Loss	860-960 MHz		22	- 	dB

Applications

The SkyePlus MXU, used in conjunction with a SkyeTek UHF 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 MXU compliments SkyeTek UHF 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** MXU

SkyePlus MXU 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

Isolation

Absolute Maximum Ratings

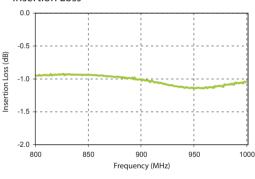
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Max Input Power $V_{ctl} = 0/+5V$	860 - 960 MHz	39 dBm
Control Voltage Range (A&B)		-0.2 to +5.5 Vdc
Hot Switching Power Level Vctl = 0/+5V		39 dBm
Channel Temperature		150° C
Continuous Pdiss (T = +85° C) (derate 6 mW/°° C above 85° C)		0.38W
Max Allowed switching Capacity		2W
Thermal Resistance		173°C/W
Storage Temperature	-65 to 150° C	
Operating Temperat	-40 to +85° C	

Electrical Characteristics

Power Supply	3.2 – 5.5V	
Power	200 μΑ	
Consumption		
Operating	860 - 960 MHz	
Frequency	 	
Digital Inputs	3 inputs	
	0/3.3V, 0/5V	

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

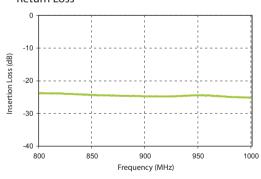
Insertion Loss





Frequency (MHz)

Return Loss





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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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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