

1:1, 1:2 AND 1:N REDUNDANT SWITCHOVER SYSTEMS

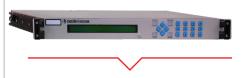
F	Insertion Loss	Amplitude Flatness/40 MHz	Return Loss	Isolation
Frequency 50 – 180 MHz	(Maximum) 0.3 dB	(Maximum) 0.2 dB	(Minimum) 20 dB	(Minimum) 60 dB
0.95 — 3 GHz	0.2 dB	0.2 dB	20 dB	60 dB
3 — 8 GHz	0.3 dB	0.3 dB	17 dB	70 dB
8 — 12.4 GHz	0.4 dB	0.3 dB	15 dB	60 dB
12.4 – 18.4 GHz	0.5 dB	0.4 dB	13 dB	60 dB
	ons apply to a single SMA female) are 0.9	e switch. IF switches (BNC femal 95 — 18.4 GHz.	le) are 50 — 180	MHz,
VAILABLE OPTIO	NS			
17. Remote Control				
C. RS232 Remote	e Interface.			
TR. Third Rack Interfa	ace Cable*			
BN. Interface Cable f	or 1RU Block Conver	ters with N female IF connectors	.*	
*Cable Kits must be s	pecified at time of or	der.		
Notes: Missing option	numbers are not ap	plicable for this product.		
ENERAL SPECIFI	CATIONS			
Physical				
Controller Unit:				
Weight (NSU1/NS	SU2/1:N NSUN)	12 pounds (5.2 kg) nomina	al	
Chassis dimenior	IS	19" x 20" x 1.75" panel he	eight	
Converter contro	l and status connect	ors DE-9S		
Remote interface	and status connect	or DE-9S		
Ethernet interfac	e cionnector	RJ-45 receptacle		
	e cionnector ule bus connectors	RJ-45 receptacle Serial ATA receptacle		
RSM switch mod	ule bus connectors	Serial ATA receptacle IEC-320		
RSM switch mod AC inputs	ule bus connectors	Serial ATA receptacle IEC-320		
RSM switch mode AC inputs Redundant Switch M	ule bus connectors Iodules (RSM) for us	Serial ATA receptacle IEC-320 e with 1:N NSUN:	1.9" deep	
RSM switch mode AC inputs Redundant Switch M Weight	ule bus connectors Iodules (RSM) for us	Serial ATA receptacle IEC-320 e with 1:N NSUN: 1 pound niminal	1.9" deep	
RSM switch mode AC inputs Redundant Switch M Weight Housing dimensio	ule bus connectors Iodules (RSM) for us	Serial ATA receptacle IEC-320 e with 1:N NSUN: 1 pound niminal 5.60" wide x 1.61" high x 3	1.9" deep	

The U-links (for back-up converter) and converter interface cables supplied with NSUN are for use with 9800/9900 series converters. Other converter product lines require optional cable sets (see available Options TR and BN).*

Included with the RSM Modules:

IF/RF U-links for use with 9800/9900 series converters. Other converter product lines require optional cable sets (see available Options TR and BN).*

Note: IF/RF cables are not included with the NSU1 and NSU2. Cable kits can be ordered separately. *Cable kits must be specified at time of order.



The Narda-MITEO Redundant Switchover Unit (NSU) Series is designed to improve reliability and increase the availability of satellite links.

The NSU Series is available in three configurations:

NSU1

The NSU1 is fully integrated 1:1 system, with a four port transfer switch located on the rear panel. The NSU1 has the ability to communicate settings between the online unit and backup unit. This allows the backup path to be used for low-priority traffic. This is an optional feature and can be accessed via a front panel key command.

NSU2

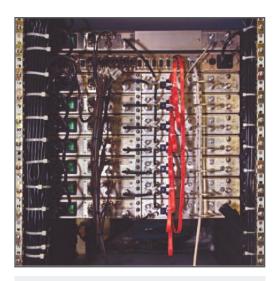
The NSU2 is fully integrated 1:2 system, with a four port transfer switch matrix located on the rear panel. The NSU2 has the ability to communicate settings between the two online units and backup unit. This allows the backup unit to assume the setting of either online unit.

NSUN

The NSUN consists of up to 12 Redundant Switch Modules (RSM) with one controller. Each switch module is mountable in the rear panel of each converter.

When a fault is detected on a primary frequency converter, that converter is automatically switched to standby and the backup converter is put online in its place.

GENERAL SPECIFICATIONS (CONTINUED)		
Primary Power		
Voltage	90 – 250 VAC	
Frequency	47 — 63 Hz	
Power consumption		
NSU1/NSU2	13 watts typical	
NSUN in a 1:12 configuration	18 watts typical	
Environmental		
Operating		
Ambient temperature	0°C to 50°C	
Relative humidity	Up to 95% at 30°C	
Atmospheric pressure	Up to 10,000 feet	
Non-Operating		
Ambient temperature	-50°C to +70°C	
Relative humidity	Up to 95% at 40°C	
Atmospheric pressure	Up to 40,000 feet	
Shock and vibration	Normal handling by commercial carriers	
For additional details on local and remote controls, please reference MITEQ Technical Note 25T065.		



Typical 1:7 Redundant System with Interconnecting DC Cables (NSUN & 9800/9900 Series Converters shown)

KEY FEATURES

NSU1

- > Redundant protection in a 1:1 configuration
- > Rear panel mounted four-port transfer switches
- Communication of settings to backup converter for automatic switchover
- > Simple manual mode operation

NSU2

- > Redundant protection for up to 2 converters
- Rear panel mounted four-port transfer switches

NSUN

- > Redundant protection for up to 12 converters
- Distributed switch modules mountable at the rear of each converter for best RF performance
- > Polarizaton switching supported
- > Field expandable redundant protection

COMMON FEATURES

- > RS485/RS422 and Ethernet remote control (Telnet, SNMP, and embedded web server)
- Redundant rear panel removable hot-swappable power supplies
- > Prioritized redundant switching
- Self configuring redundancy settings
- Firmware updates through Ethernet port
- > Time and date stamped activity log
- Gain equalization to compensate for cable losses
- > CE Mark

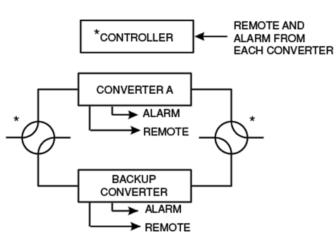
OPTIONS

> RS232 remote in lieu of RS485/RS422

1:1 Redundant Switchover System



NSU1 Series – Rear Panel View



NSU1 is a 1:1 Redundant Switchover Unit. In its "simple mode" of operation it monitors the status alarm contacts on the online converter and switches to the standby unit in the event of an alarm. The user may select to enable the serial link through a front panel command. When the serial link is enabled, the NSU1 will monitor the frequency and attenuation settings of the online unit and set the backup unit to those settings in the event of a failure.

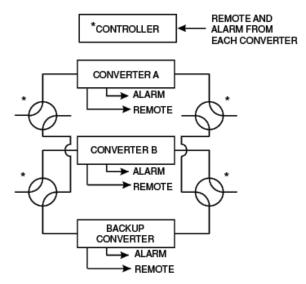
A strong feature set of monitor and control functions supports powerful local and remote control. An embedded web server provides for a user friendly computer interface.

*Inside NSU1 box.

1:2 Redundant Switchover System



NSU2 Series - Rear Panel View



*Inside NSU2 box.

NSU2 is fully integrated 1:2 Redundant Switchover System. It consists of a controller and a matrix of four-port transfer switches.

The NSU2 controller monitors the status of two primary frequency converters and one backup converter, automatically detecting changes in settings and fault status.

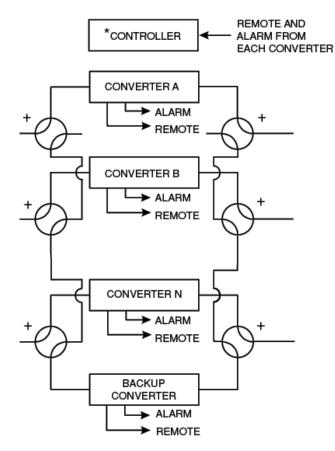
The frequency converters can be prioritized so that critical communication channels have access to the backup converter.

A strong feature set of monitor and control functions supports powerful local and remote control. An embedded web server provides for a user friendly computer interface.

1:N Redundant Switchover System



NSUN Series – Rear Panel View



*Inside NSUN box.

+Switch modules mountable in converters.

- The 1:N Redundant Switchover System consists of:
- One NSUN controller for one to twelve primary frequency converts and one backup converter.
- One to twelve Redundant Switch Modules (RSM).

The NSUN controller monitors the status of up to twelve primary frequency converters and one backup converter, automatically detecting changes in settings and fault status.

The frequency converters can be prioritized so that critical communication channels have access to the backup converter on a prioritized basis.

A strong feature set of monitor and control functions supports powerful local and remote control. An embedded web server provides for a user friendly computer interface.



RSM - Redundant Switch Module

INTERNAL SWITCHES (DEDICATE	וח
MODEL NUMBERS	DESCRIPTION
NSU1-B75/S50	One 75 ohm IF switch and one 50 ohm RF switch
NSU1-B50/S50	One 50 ohm IF switch and one 50 ohm RF switch
NSU1-S50/S50	One 50 ohm switches on input and output (for Block Converters)
NSU1-B75	One 75 ohm IF switch only
NSU1-B50	One 50 ohm IF switch only
NSU1-S50	One 50 ohm RF switch only
NSU2-B75/S50	Two 75 ohm IF switches and one 50 ohm RF switch
NSU2-B50/S50	Two 50 ohm IF switches and one 50 ohm RF switch
NSU2-S50/S50	Two 50 ohm switches on input and two on output (for Block Converters)
NSU2-B75	Two 75 ohm IF switches only
NSU2-B50	Two 50 ohm IF switches only
NSU2-S50	Two 50 ohm RF switches only

	DECODITION	
MODEL NUMBERS	DESCRIPTION	
L:1 NSUN-B75/S50	One RSM, with one 75 ohm IF switch and one 50 ohm RF switch	
:1 NSUN-B50/S50	One RSM, with one 50 ohm IF switch and one 50 ohm RF switch	
:1 NSUN-S50/S50	One RSM, with one 50 ohm switch on input and one on output (for Block Converters)	
L:1 NSUN-B75	One RSM, with one 75 ohm IF switch only	
1:1 NSUN-B50	One RSM, with one 50 ohm IF switch only	
1:1 NSUN-S50	One RSM, with one 50 ohm RF switch only	
1:2 NSUN-B75/S50	Two RSMs, each with one 75 ohm IF switch and one 50 ohm RF switch	
1:2 NSUN-B50/S50	Two RSMs, each with one 50 ohm IF switch and one 50 ohm RF switch	
1:2 NSUN-S50/S50	Two RSMs, each with one 50 ohm switch on input and one on output (for Block Converters)	
1:2 NSUN-B75	Two RSMs, each with one 75 ohm IF switch only	
1:2 NSUN-B50	Two RSMs, each with one 50 ohm IF switch only	
1:2 NSUN-S50	Two RSMs, each with one 50 ohm RF switch only	
1:3 NSUN-B75/S50	Three RSMs, each with one 75 ohm IF switch and one 50 ohm RF switch	
1:3 NSUN-B50/S50	Three RSMs, each with one 50 ohm IF switch and one 50 ohm RF switch	
1:3 NSUN-S50/S50	Three RSMs, each with one 50 ohm switch on input and one on output (for Block Converters)	
1:3 NSUN-B75	Three RSMs, each with one 75 ohm IF switch only	
1:3 NSUN-B50	Three RSMs, each with one 50 ohm IF switch only	
1:3 NSUN-S50	Three RSMs, each with one 50 ohm RF switch only	
1.5 103010-350	Three KSH3, each with the 50 thin KF switch they	
1:4 NSUN-B75/S50	Four RSMs, each with one 75 ohm IF switch and one 50 ohm RF switch	
1:4 NSUN-B50/S50	Four RSMs, each with one 50 ohm IF switch and one 50 ohm RF switch	
1:4 NSUN-S50/S50	Four RSMs, each with one 50 ohm switch on input and one on output (for Block Converters)	
1:4 NSUN-B75	Four RSMs, each with one 75 ohm IF switch only	
1:4 NSUN-B50	Four RSMs, each with one 50 ohm IF switch only	
1:4 NSUN-S50	Four RSMs, each with one 50 ohm RF switch only	
1:5 NSUN-B75/S50	Five RSMs, each with one 75 ohm IF switch and one 50 ohm RF switch	
1:5 NSUN-B50/S50	Five RSMs, each with one 50 ohm IF switch and one 50 ohm RF switch	
1:5 NSUN-S50/S50	Five RSMs, each with one 50 ohm switch on input and one on output (for Block Converters)	
1:5 NSUN-B75	Five RSMs, each with one 75 ohm IF switch only	
1:5 NSUN-B50	Five RSMs, each with one 50 ohm IF switch only	
1:5 NSUN-S50	Five RSMs, each with one 50 ohm RF switch only	
1:6 NSUN-B75/S50	Six RSMs, each with one 75 ohm IF switch and one 50 ohm RF switch	
1:6 NSUN-B50/S50	Six RSMs, each with one 50 ohm IF switch and one 50 ohm RF switch	
1:6 NSUN-S50/S50	Six RSMs, each with one 50 ohm switch on input and one on output (for Block Converters)	
1:6 NSUN-B75	Six RSMs, each with one 75 ohm IF switch only	
1:6 NSUN-B50	Six RSMs, each with one 50 ohm IF switch only	
1:6 NSUN-S50	Six RSMs, each with one 50 ohm RF switch only	

*Expansion from existing 1:N system requires customer provided detail of existing 1:N system for appropriate cable sets to be provided.

EXTERNAL SWITCHES (EXPANDABLE)* (CONTINUED)

110 Decked with one 75 ohm 1F switch and one 50 ohm RF switch 127 NSUN-P57/550 Seven R5Ms, each with one 75 ohm 1F switch and one 50 ohm RF switch 127 NSUN-S50/550 Seven R5Ms, each with one 50 ohm RF switch on iput and one on output (for Block Converters) 127 NSUN-850 Seven R5Ms, each with one 50 ohm RF switch only 127 NSUN-850 Seven R5Ms, each with one 50 ohm RF switch only 128 NSUN-850/550 Eight R5Ms, each with one 50 ohm RF switch 128 NSUN-850/550 Eight R5Ms, each with one 50 ohm RF switch and one 50 ohm RF switch 128 NSUN-850/550 Eight R5Ms, each with one 50 ohm RF switch and one on output (for Block Converters) 128 NSUN-850/550 Eight R5Ms, each with one 75 ohm IF switch and one on output (for Block Converters) 128 NSUN-850/550 Eight R5Ms, each with one 50 ohm RF switch only 128 NSUN-850/550 Nine R5Ms, each with one 50 ohm RF switch only 129 NSUN-850/550 Nine R5Ms, each with one 50 ohm IF switch only 129 NSUN-850/550 Nine R5Ms, each with one 50 ohm IF switch only 129 NSUN-850/550 Nine R5Ms, each with one 50 ohm IF switch only 120 NSUN-850/550 Nine R5Ms, each with one 50 ohm IF switch	MODEL NUMBERS	DESCRIPTION	
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*Expansion from existing 1:N system requires customer provided detail of existing 1:N system for appropriate cable sets to be provided.

1:1, 1:2 and 1:N Redundant Switchover Systems

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