

## General

Today's communication installations demand dependable and high performance equipment at an affordable price. Compact and feature loaded, our System SWM24 wideband matrix unit provides an uncompromising combination of high performance and high reliability switching coupled together for 20-3000MHz performance. Standard hot-swap redundant power supplies deliver the ultimate in system reliability for critical applications.

Delivering a total of 48 I/O ports, the unit provides cost effective switching capacity for smaller installations. The SWM24 is a distributive non-blocking (Fan-OUT) design that can be ordered in a 24x24 array size, 16x32 or 8x40. The SWM24i combiner version (Fan-IN) can be ordered as a 40x8, 32x16 or 24x24 configuration.

Complete control and status of the unit is available at the built-in web browser, front panel, or via the included RouteWarePRO software package.

Model	Size	Type	Conn	Imped	Dual PS
SWM24-4824-5A	24 in, 24 out	Fan-OUT	SMA	50	Yes
SWM24-4824-5B	24 in, 24 out	Fan-OUT	BNC	50	Yes
SWM24-4824-7B	24 in, 24 out	Fan-OUT	BNC	75	Yes
SWM24-4832-5A	16 in, 32 out	Fan-OUT	SMA	50	Yes
SWM24-4832-5B	16 in, 32 out	Fan-OUT	BNC	50	Yes
SWM24-4832-7B	16 in, 32 out	Fan-OUT	BNC	75	Yes
SWM24-4840-5A	8 in, 40 out	Fan-OUT	SMA	50	Yes
SWM24-4840-5B	8 in, 40 out	Fan-OUT	BNC	50	Yes
SWM24-4840-7B	8 in, 40 out	Fan-OUT	BNC	75	Yes
SWM24i-4808-5A	40 in, 8 out	Fan-IN	SMA	50	Yes
SWM24i-4808-5B	40 in, 8 out	Fan-IN	BNC	50	Yes
SWM24i-4808-7B	40 in, 8 out	Fan-IN	BNC	75	Yes
SWM24i-4824-5A	24 in, 24 out	Fan-IN	SMA	50	Yes
SWM24i-4824-5B	24 in, 24 out	Fan-IN	BNC	50	Yes
SWM24i-4824-7B	24 in, 24 out	Fan-IN	BNC	75	Yes
SWM24i-4832-5A	32 in, 16 out	Fan-IN	SMA	50	Yes
SWM24i-4832-5B	32 in, 16 out	Fan-IN	BNC	50	Yes
SWM24i-4832-7B	32 in, 16 out	Fan-IN	BNC	75	Yes

## Applications

- Ground station and infrastructure facilities
- Communication installations
- ENG trucks and vans
- Airborne surveillance systems
- Teleport and last mile installations
- SatCom receiver routing for transmit or receive

## Features

- High reliability Gen-5 GaAs switch technology
- SMA or BNC signal connector types
- Impedance 50 or 75 ohm
- Redundant power supplies
- Available in distributive Fan-OUT or Fan-IN (combiner)
- Ethernet control port (10/100)
- Multi-serial port (RS-232C/422A/485) and USB
- Built-in scheduler for automated actions
- SNMP v1/v2, TCP/IP, SNMP and web browser control
- Built-in diagnostics
- Variable (programmable) gain
- International AC power input
- RouteWarePRO software is included (single license)
- LabVIEW drivers available



Download our Monitor & Control software **RouteWarePRO** for a FREE 30-day trial today!



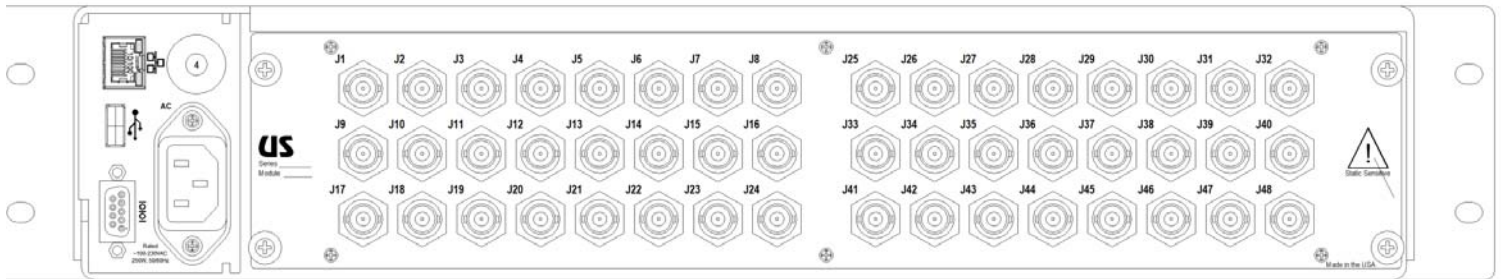
Model SWM24  
Wideband 24x24  
2RU

SWM24-001

## System Control Software - INCLUDED

The SWM24 units come with our RouteWarePRO control software package that will get you up and running fast! Within minutes, you can install the software and start controlling your system remotely.

The user can customize the GUI on the fly with screen colors, input and output channel designations, panel names and labels can be easily added or changed too, or even the title displayed at the top of the GUI. Examples are provided on the installation media and videos are on our website.



### System SWM24(i) Specifications

Array size .....See model table  
 Switching technology .....Solid-state GaAs elements  
 Type of system .....Non-blocking Fan-OUT, or Fan-IN  
 Architecture .....Fixed size  
 Signal connector location ...Rear panel

#### I/O Characteristics \*\*

Frequency range .....20 - 3000MHz  
 Impedance .....50 ohm (75 optional)  
 Coupling .....AC  
 Gain .....Unity (nominal)  
 Programmable gain .....+20dB, -10dB minimum  
 Flatness .....<+/-2.5dB, +/-0.35dB 40MHz segment  
 Isolation .....>60dB (I/I, O/O, I/O)  
 Input return loss .....>14dB typ  
 Output return loss .....>14dB typ  
 -1dB compression .....>0dBm min  
 Noise Figure .....<18dBn @ 0dB gain typ  
 Output IP3 .....>10dBm typ  
 Signal connector .....SMA(f) or BNC-50, BNC-75

#### General Specifications

Switching speed .....<10mS  
 Power supply section .....Redundant, hot-swap  
 Power supply monitoring ...Included  
 Ethernet port .....10/100BaseT, SNMP v1/v2 and TCP/IP  
 Serial port .....RS232C/422A/485 (DE9)  
 USB port .....USB 2.0  
 Status LED's .....Front panel  
 Front panel display .....Touchscreen control  
 Configuration memory .....FLASH  
 Cooling .....Dual fan assisted  
 AC power requirements ...90-264VAC, 47-63Hz, <160 Watts  
 Line protection .....Circuit protector  
 Weight .....<24 lbs  
 Size .....3.47H x 23.50D x 19.00W (2RU)  
 Operating temp .....0 to +50C  
 Non-operating temp .....-20 to +85C  
 Humidity .....0 to 95% (NC @ +25C)  
 MTBF .....>130,000 hours (estimated)  
 Warranty .....2 years  
 Certifications .....CE EN61010

\*\* NOTE 1: If special or unique performance or features are required, the base model number is used plus a unique 5-digit suffix.

Universal Switching's policy is one of continuous development. Consequently, the company reserves the right to vary from the descriptions and specifications shown in this publication.