

# Specification Sheet SWM24-001

High Performance 20-6000MHz Wideband Matrix Sizes 24x24, and 16x32 Switching Array Corporation System SWM24(i) & SGM24 Fan-OUT or Fan-IN Types - 2RU

March 2024

### General

Today's communication installations demand dependable and high performance equipment at an affordable price. Compact and feature loaded, our System SWM24 and SGM24 wideband matrix units provide an uncompromising combination of high performance and high reliability switching coupled together for up to 20-6000MHz performance. Standard hot-swap redundant power supplies deliver the ultimate in system reliability for critical applications.

Delivering a maximum 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 or 16x32 for signals 20-3000MHz. Our SGM24 is the same but has increased frequency capability and covers from 20-6000MHz. The SWM24i combiner version (Fan-IN) can be ordered as a 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	Freq	Type	Conn	Dual PS
SWM24-4824-5A	24 in, 24 out	20-3000MHz	Fan-OUT	SMA	Yes
SWM24-4824-5B	24 in, 24 out	20-3000MHz	Fan-OUT	BNC	Yes
SWM24-4832-5A	16 in, 32 out	20-3000MHz	Fan-OUT	SMA	Yes
SWM24-4832-5B	16 in, 32 out	20-3000MHz	Fan-OUT	BNC	Yes
SGM24-4824-5A	24 in, 24 out	20-6000MHz	Fan-OUT	SMA	Yes
SGM24-4832-5A	16 in, 32 out	20-6000MHz	Fan-OUT	SMA	Yes
SWM24i-4824-5A	24 in, 24 out	20-3000MHz	Fan-IN	SMA	Yes
SWM24i-4824-5B	24 in, 24 out	20-3000MHz	Fan-IN	BNC	Yes
SWM24i-4832-5A	32 in, 16 out	20-3000MHz	Fan-IN	SMA	Yes
SWM24i-4832-5B	32 in, 16 out	20-3000MHz	Fan-IN	BNC	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 ohm
- Redundant hot-swap power supplies
- Available in distributive Fan-OUT or Fan-IN (combiner)
- Ethernet control port (10/100/1000)
- Multi-serial port (RS-232C/422A/485)
- Built-in scheduler for automated actions
- SNMP v1/v2C/v3, TCP/IP, SNTP and web browser
- **Built-in diagnostics**
- Alarm port (hard contact)
- Variable (programmable) gain
- International AC power input
- RouteWarePRO software is included (single license)
- LabVIEW drivers available











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Model SGM24 Wideband 16x32 (20-6000MHz)

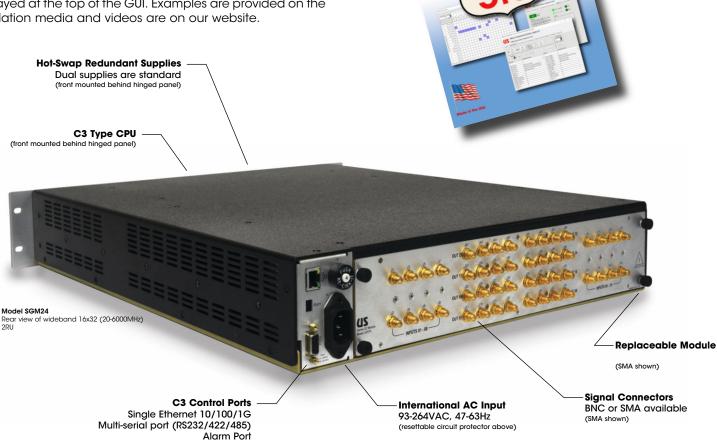
SWM24-001



# System Control Software - INCLUDED

The SWM24 and SGM24 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 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 (SWM24)

20 - 6000MHz (SGM24)

Programmable gain ......Contact factory

Flatness ... .<+/-3.0dB, +/-0.35dB 40MHz segment Isolation ... .>60dB (I/I, O/O, I/O): SWM24

>48dB (I/I, O/O, I/O): SGM24

Input return loss .....>10dB typ

Output return loss .....>10dB typ -1dB compression .....>0dBm min

Output IP3 .....>5dBm typ

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

#### **General Specifications**

Switching speed .....<10mS

Power supply section . . . . . . . . Redundant, hot-swap

Power supply monitoring ....Included

Control & Monitor Software

Status LED's ......Front panel Front panel display .....Touchscreen control

Configuration memory .....FLASH

 
 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

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.

