Specification Sheet SLM16-001

High Performance 850-2450MHz L-Band Matrix
Sizes 8x8 to 16x16 Switching Array
System SLM16 Fan-OUT & SLM16i Fan-IN Types - 1RU

March 2020

General

Today's communication installation demands dependable and high performance solutions at a competitive price. The SLM16 and SLM16i compact L-Band matrix units provide an uncompromising combination of high performance and high reliability switching coupled together for 850-2450MHz performance in a 1RU rackmount solution.

Standard redundant power supplies with independent AC circuits deliver the ultimate in system reliability for critical applications. Redundant monitored fans provide extra cooling for harsh mobile environments. It delivers a fully integrated high performance proprietary switch core, low NF amplifiers and power splitter/combiner circuits for your demanding L-Band needs.

Compact (1RU) and high performance, our unit provides a cost effective switching capacity for smaller installations. The SLM16 is a distributive non-blocking (Fan-OUT) product that can be ordered in an 8x8 array size, 4x16, 8x16, or 16x16. The SIM16i combiner version (Fan-IN) can also be ordered as an 8x8, 16x4, 16x8, or 16x16 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.

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

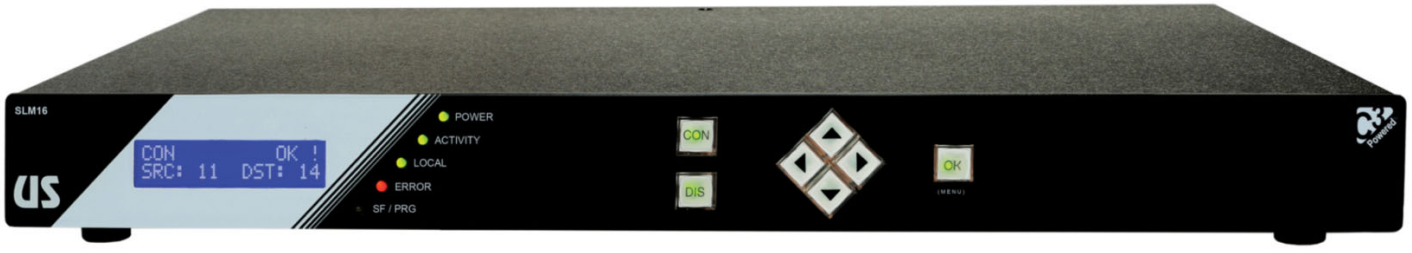
Features

- High reliability Gen-5 GaAs switch technology
- SMA or BNC signal connector types
- Impedance 50 ohm
- Variable gain optional (see note 2)
- Redundant power supplies
- Dual independent AC circuits
- Available in distributive Fan-OUT or Fan-IN (combiner)
- Ethernet control port (10/100)
- Multi-serial port (RS-232C/422A/485)
- Alarm port (hard contact) and four preset inputs
- Built-in scheduler for automated actions
- SNMP v1/v2C/v3, TCP/IP & web browser control
- Realtime clock with SNTP
- Built-in diagnostics
- International AC power input
- LabVIEW drivers available

Model	Size	Freq	Type	Conn	Dual PS
SLM16-1608-5A	8 in, 8 out	850-2450MHz	Fan-OUT	SMA	Yes
SLM16-1608-5C	8 in, 8 out	850-2450MHz	Fan-OUT	BNC	Yes
SLM16-2016-5A	4 in, 16 out	850-2450MHz	Fan-OUT	SMA	Yes
SLM16-2016-5C	4 in, 16 out	850-2450MHz	Fan-OUT	BNC	Yes
SLM16-2416-5A	8 in, 16 out	850-2450MHz	Fan-OUT	SMA	Yes
SLM16-2416-5C	8 in, 16 out	850-2450MHz	Fan-OUT	BNC	Yes
SLM16-3216-5A	16 in, 16 out	850-2450MHz	Fan-OUT	SMA	Yes
SLM16-3216-5C	16 in, 16 out	850-2450MHz	Fan-OUT	BNC	Yes
SLM16i-1608-5A	8 in, 8 out	850-2450MHz	Fan-IN	SMA	Yes
SLM16i-1608-5C	8 in, 8 out	850-2450MHz	Fan-IN	BNC	Yes
SLM16i-2016-5A	16 in, 4 out	850-2450MHz	Fan-IN	SMA	Yes
SLM16i-2016-5C	16in, 4 out	850-2450MHz	Fan-IN	BNC	Yes
SLM16i-2408-5A	16 in, 8 out	850-2450MHz	Fan-IN	SMA	Yes
SLM16i-2408-5C	16in, 8 out	850-2450MHz	Fan-IN	BNC	Yes
SLM16i-3216-5A	16 in, 16 out	850-2450MHz	Fan-IN	SMA	Yes
SLM16i-3216-5C	16 in, 16 out	850-2450MHz	Fan-IN	BNC	Yes

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

Made in the USA



Model SLM16
L-Band 16x16
1RU

SLM16-001

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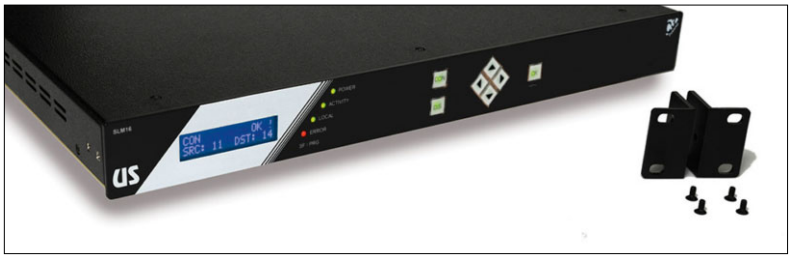
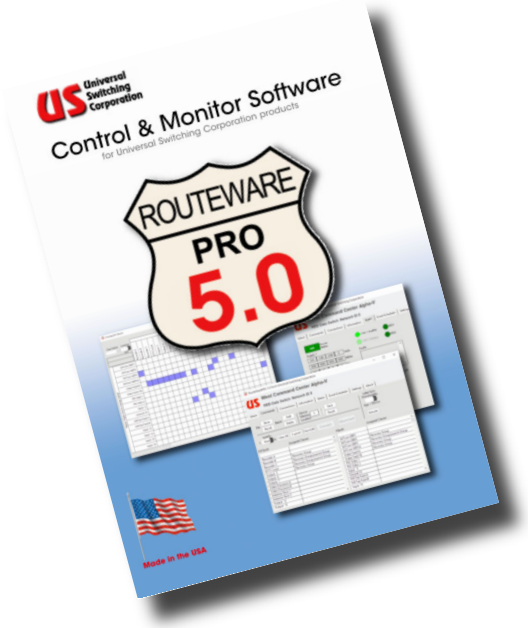
@US_Corp

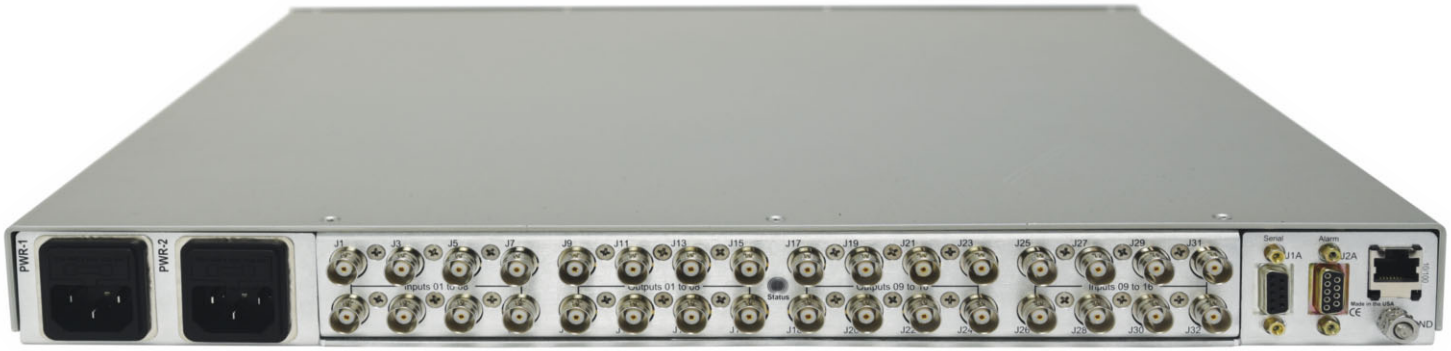
Control Software

The SLM16 and SLM32i units are compatible with our RouteWarePRO control software package that will get you up and running. Within minutes, you can install the software and start controlling you new switching system remotely.

The user can customize the GUI on the fly, or by editing simple text files. 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. See our website for a free 30-Day trial download.







System SLM16(i) Specifications

Array size . . . . . .Up to 16in x 16out array
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 . . . . . .850 - 2450MHz
Impedance . . . . . .50 ohm
Coupling . . . . . .AC
Gain . . . . . .Unity (nominal)
Programmable gain . . . . . .See Note 2
Flatness . . . . . .<+/-2.0dB, +/-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 . . . . . .<12dB
Output IP3 . . . . . .>10dBm
Signal connector . . . . . .SMA(f) or BNC-50

General Specifications
Switching speed . . . . . .<10mS
Power supply section . . . . . .Redundant
Power supply monitoring . . . .Included
Ethernet port . . . . . .10/100BaseT, SNMP v1/v2C/v3 & TCP/IP
Protocols . . . . . .TCP/IP, SNMP v1/v2C/v3, SNTP
Status LED's . . . . . .Front panel
Front panel display . . . . . .LCD
Configuration memory . . . . . .FLASH
Cooling . . . . . .Redundant fan assisted (monitored)
AC power requirements . . . . .90-264VAC, 47-63Hz, <100 Watts
Line protection . . . . . .Fuses
Weight . . . . . .<14 lbs
Size . . . . . .1.72H x 23.50D x 19.00W (1RU)
Operating temp . . . . . .0 to +60C
Non-operating temp . . . . . .-20 to +85C
Humidity . . . . . .0 to 95% (NC @ +25C)
MTBF . . . . . .>135,000 hours
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.

** NOTE 2: Standard is unity gain. It is also available in four variable gain configurations. Suffix -IVG6 (input +/-6dB), -OVG6 (output +/-6dB), -IVG20 (input -10/+20dB), -OVG20 (output -10/+20dB). All of these affect NF and IP3 performance.

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