



# Pacific MS-1/MS-2/MS-3/MS-6

The Pacific MS is a modular matrix switcher that incorporates switching, distribution, monitoring, and operation of multiple computing devices and video signals into a 1, 2, 3, and 6 RU enclosure. It offers high-speed video routing, flexible KVM switching, and multiviewing capabilities through various I/O card combinations.

Designed for streamlined operation for a cluster of users with multiple systems, Pacific MS allows creation of multi-screen multiview user space by grouping display outputs. The "Surfer"

feature allows user to manage a variety of systems across multiple monitors and seamlessly switch control to any of the system via one set of mouse and keyboard.

Pacific MS provides an in-system GUI for switching and routing configuration, as well as real-time monitoring of source/output for routing preview and confirmation. Additionally, user can remotely access any of the system directly through the GUI, ideal for a wide range of applications in need of a centralized administration solution.

## FEATURES

### MODULAR CARD-BASED DESIGN

- Non-blocking 12x12 (MS-1)\*/ 12x8 (MS-2) / 20x16 (MS-3) / 32x32 (MS-6) matrix architecture for video and mouse/keyboard switching
- Redundant power supply ensures mission-critical reliability (Avitech Power Supply Station for MS-1/MS-2/MS-3; redundant power supply for MS-6)
- Field serviceable fan for MS-2/MS-3/MS-6 and hot-swappable I/O cards for the MS-1/MS-6\*\*

\*Does not support keyboard/mouse switching and GUI/preview \*\*future release

### FLEXIBLE I/O AND WORKSTATION CONFIGURATION

- Wide selection of I/O cards for multi-format signal routing, quad/dual multiview monitoring and KVM switching
- Auto-senses HDMI/DVI/VGA/YPbPr and SDI (3G/HD/SD) / CVBS (NTSC/PAL) source signals\*
- HDMI I/O cards are HDCP compliant with support of videos and 8-channel embedded audio
- HDBaseT and IP input and output cards (SIB-T/SIB-IP and SOB-T) used in conjunction with Avitech's Pacific extenders
- Adaptive video equalization extends cabling distance up to 40m for 1080p/60 HDMI source signal
- Output cards provide mouse/keyboard connectivity for direct system control (up to 4 systems from a quad multiviewer card)
- Output grouping and "Surfer" empower streamlined user space operation (control up to 16 systems across 4 screens via one set of mouse and keyboard)
- Quad UHD 4K output with mouse/keyboard switching support

\*HDMI 1.4 and SMPTE 424M/292M/344M/259M compliant

### INTUITIVE CONTROL AND SYSTEM ADMINISTRATION\*

- In-system GUI facilitates switching and configuring grouped user space via local monitor, USB mouse and keyboard\*\*;
- Real-time monitoring of any 2 images for customizable preview/confirmation windows; enables remote control of source systems directly on the GUI
- Control Board (CB) provides local system connection allowing seamless switch of operation between the GUI and a local system
- Drag-and-drop operation of video routing and keyboard/mouse switching from any input to any output on the GUI
- Front push-button panel provides an alternate switching/routing control for MS-2/MS-3
- Wake-on-LAN feature for turning on computers within the network
- Supports multi-language

\*MS-1 does not come with in-system GUI and preview windows. It has front push-button panel and is provided with HTTP ASCII commands.

\*\*All Pacific MS' USB interfaces are USB 2.0 compliant

## SPECIFICATIONS

CHASSIS	1RU, 2RU, 3RU and 6RU chassis each houses up to 6/5/9/16 signal I/O cards respectively A control board (CB) comes with 2RU, 3RU, and 6RU chassis	
FRONT PANEL	Push-button panel for local switching/routing control (MS-1/MS-2/MS-3)	
REAR PANEL		
<b>CB Card</b> (Control Board supports in-system GUI and local system control)	Input	1 × BNC (reference sync) 2 × USB-A (mouse/keyboard control for in-system GUI/local system) 1 × USB-B (local system mouse/keyboard connection) 1 × RJ-45 (Ethernet) 1 × RJ-45 (RS-232) 1 × RJ-45 (RS-485) 1 × HDMI (local system connection/video source)
	Output	1 × HDMI (display connection for in-system GUI/local system) Resolution up to 1080p 50/60 Hz (HDCP compliant) 1 × HDBaseT (extends HDMI and mouse/keyboard control for in-system GUI/local system) 1080p transmission up to 100 meters over standard CAT5e/6 cable 1 × LED (indicates HDBaseT link status)
<b>SIB-H Card</b> (HDMI input)	Input	4 × HDMI (video with 8-channel embedded audio) Resolution up to 1920 × 1200 Signal equalization supports cable runs up to 40 meters at 1080p (24AWG)
<b>SIB-HL Card</b> (HDMI input/ Micro HDMI loop-out)	Input	4 × HDMI (video with 8-channel embedded audio) Resolution up to 1920 × 1200
	Output	4 × Micro HDMI (video with 8-channel embedded audio loop-out)
<b>SIB-BNC Card</b> (SDI/CVBS input/ SDI loop-out)	Input	4 × BNC (3G level A,B/HD/SD-SDI / CVBS (NTSC/PAL))
	Output	4 × BNC (looping output from the SDI input source; non-configurable)
<b>SIB-T Card</b> (HDMI/HDBaseT input)	Input	2 × HDMI (video with 8-channel embedded audio) Resolution up to 1920 × 1200 Signal equalization supports cable runs up to 40 meters at 1080p (24AWG) 2 × HDBaseT (video, audio, and mouse/keyboard control) Signal transmission distance up to 100 meters over standard CAT5e/6 cable
	Output	
<b>SIB-DH Card</b> (DVI/HDMI input)	Input	2 × DVI (DVI/VGA/YpPr) 2 × HDMI (video with 8-channel embedded audio) Resolution up to 1920 × 1200 Signal equalization supports cable runs up to 40 meters at 1080p (24AWG)
	Output	
<b>SIB-IP Card</b> (KVM over IP)	Input	2 × RJ-45 (connect to Avitech's Pacific KVM over IP transmitter via CAT5e/6 cable)
	Output	2 × HDMI (decoded output from the RJ-45 input source)
<b>KM Card</b> (Keyboard/Mouse connection)	8 × USB-B (mouse/keyboard connection to source system)	
<b>SOB-H Card</b> (HDMI output)	Output	4 × HDMI (video with 8-channel embedded audio) Resolution up to 1920 × 1200 (WUXGA) at 50/60 Hz or 1600 × 1200 (UXGA) at 75 Hz
<b>SOB-HPW Card</b> (HDMI output with seamless switch)	Input	4 × USB-A (mouse/keyboard control)
	Output	2 × HDMI (video with 8-channel embedded audio) Seamless switching between 2 systems in full-screen; or dual-view display for 2 systems Resolution up to 1920 × 1200 (WUXGA) at 50/60 Hz or 1600 × 1200 (UXGA) at 75 Hz
<b>SOB-QPW Card</b> (Quad multiview output with PiP, PoP, and PbP seamless switch)	Input	2 × USB-A (mouse/keyboard control)
	Output	1 × HDMI (video with 8-channel embedded audio) Quad-view display for 4 systems; or seamless switching in full screen or PiP Resolution up to 1920 × 1200 (WUXGA) at 50/60 Hz or 1600 × 1200 (UXGA) at 75 Hz 1 × Stereo phono jack (audio monitoring via headset)
<b>SOB-Q20 Card</b> (4K Quad multiview output)	Input	2 × USB-A (mouse/keyboard control) 1 × HDMI (audio/video cascade of SOB-Q20)
	Output	1 × HDMI (video with 8-channel embedded audio) Quad-view display for 4 systems Resolution up to 3840 × 2160 (UHD) at 25/30Hz
<b>SOB-T Card</b> (HDBaseT output)	Output	4 × HDBaseT (extends video, audio, and mouse/keyboard control) Signal transmission distance up to 100 meters over standard CAT5e/6 cable - Mouse/Keyboard control for port 1 & 3 only 4 × LED (indicates HDBaseT link status)
POWER SUPPLY	12V DC / 11A (MS-1) ; 12V DC / 10A (MS-2) ; 12V DC / 20A (MS-3) ; 100-240V AC 50/60 Hz (MS-6)	
POWER CONSUMPTION	Max. 132 Watt (MS-1) ; 110 Watt (MS-2) ; 220 Watt (MS-3) ; 400 Watt (MS-6)	
DIMENSION (LxWxH)	12.37 × 17.28 × 1.75 inch (31.41 × 43.90 × 4.44 cm)(MS-1) 9.70 × 17.30 × 3.50 inch (24.66 × 43.90 × 8.88 cm)(MS-2) 9.52 × 17.30 × 5.24 inch (24.17 × 43.90 × 13.32 cm)(MS-3) 11.48 × 17.28 × 10.49 inch (29.16 × 43.90 × 26.64 cm)(MS-6)	
WEIGHT	Max. 8.64 lbs (3.92 kg)(MS-1); 11.34 lbs (5.13 kg)(MS-2); 15.98 lbs (7.25 kg)(MS-3); 33.73 lbs (15.30 kg)(MS-6)	
TEMPERATURE	Operation	0 °C (32 °F) to 40 °C (104 °F)      Storage   -10 °C (14 °F) to 50 °C (122 °F)
SAFETY REGULATION	FCC, CE, C-Tick, Class A	

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