

RS-S2H JANUS

TACTICAL COMPUTER SYSTEM





OVERVIEW

The RS-S2H Janus Tactical Computer System was designed by Rugged Science with direct input from America's elite warfighters. The system packages the most powerful 6th generation Quad Core™ Intel® Xeon™ processors into a rugged, lightweight Pelican™ brand 1525 Air Case that is ready to deploy in the harshest operating environments.

Janus features dual Hi-Bright backlit LCD displays (with optional resistive touchscreen) at 1000 nits mounted to an innovative internal armature that isolates shock and vibration, and quickly folds open or closed for rapid transit. The internal PC is a fanless design with an extra large heat sink for exceptional thermal performance. The Janus is available with up to 32 Gb RAM, and boasts a -20°C to 60°C operating temperature range. In real-world tactical operations, SWAP is always a top concern; at less than 30 lbs. Janus systems are among the lightest and most powerful tactical computer systems available.

FEATURES

- Rugged design for harsh environments
- Lightweight
- Pelican[™] brand 1525 Air Case enclosure
- Dual Hi-Brite LCD display 16.7M colors/1000 nits
- Optional resistive touchscreen available
- Optional HDMI output for display cloning
- Quad Core 6th Generation Intel® Xeon™
 E3-1505m v5 (Skylake-H) CPU
- 2 DDR4 2133 MHz RAM, up to 32 Gb
- Fanless -20°C to 60°C
- Ruggedized, water-resistant, backlit keyboard with integrated 3 button touchpad



RS-S2H JANUS SPECIFICATIONS

System		CPU Performance	
Processor	Intel® Xeon™ E3-1505M v5	No. of Cores	4
Chipset	Intel® CM236	No. of Threads	8
BIOS	AMI	Base Frequency	2.80 GHz
SIO	IT8786E	Max Frequency	3.70 GHz
Memory	2x DDR4 2133, up to 32 Gb	Cache	8 Mb smart cache
GPU	Intel® HD Graphics P530	Bus Speed	8 GT/s DMI3
/O Interface		TDP	45W configurable to 35W
USB	4x USB 3.0 (external)	OS Support	
SIM Card	4 sockets (internal)	OS	Win 10, Win 8.1, Win 7, Linux
LAN 1	Intel® I219LM Ethernet LAN (supports iAMT 11.0)	Other	
_AN 2	Intel® I210 Ethernet LAN	Trusted Platform Mobile	TPM 2.0
Optional Internal Expansion	n	Watchdog Timer	Reset: 1 to 255 sec./min. per step
Mini PCle	4x Mini PCIe Socket: - 3x full-size for PCIe/USB/external SIM card/mSATA - 1x full-size for PCIe/internal SIM card/mSATA	Smart Management	Wake on LAN, PXE support
		HW Monitor	Temp & voltage auto-throttle on overheat
PCI/PCIe	1 PCI/PCIe x 16 slot	Mechanical	
SUMIT A/B	2 slots	Dimensions	21.5 x 13.5 x 7.7 (L x W x H - inches)
Storage	2 000	Weight	~ 30 lbs.
SATA	4x SATA III support S/W RAID 0, 1, 5, 10	Enclosure	
		Model	Pelican® 1525 Air
	- 1x SATA III co-lay w/mini PCIe (6GB/s)	Construction	Proprietary HPX ² Polymer
mSATA	4x mSATA connection: - 3x SATA III (mini PCle type, 6GB/s) - 1x SATA III co-lay w/SATA (mini PCle type, 6GB/s)	Other	Air pressure purge valve
		Environmental	
Default Storage Config.	4x 2.5" SSD, 1TB ea., RAID 1 config.	Operating Temperature	-20° to 60° C (-4 to 140° F)
Audio		Storage Temperature	-40° to 85° C (-40 to 185° F)
Codec	Realtek ALC892, 5.1 channel HD audio	Testing	
Power		Shock	Designed to meet or exceed MIL-STD-810
Battery Power	Optional battery packs available	Vibration	Designed to meet or exceed MIL-STD-810
AC/DC Input	12-36V DC-in, DC auto adapter, and 120V AC adapter available	ЕМІ	Designed to meet or exceed MIL-STD-461
		Quality	
Interface	3-pin circular connector: V+, V-, chassis ground	ISO	ISO 9001:2015
		Displays	
Remote Switch	Optional	Description	2x 13.3" wide TFT LCD, LED
gnition Control	16 mode (internal)	Display Area (mm)	backlit 286.08 x 178.8
Surge Protection			
	Up to 80V/1ms transient power	Brightness	Sunlight readable (1000 cd/m²)
Protection	Reverse polarity/Over-current/	Brightness Resolution	Sunlight readable (1000 cd/m²) 1280 x 800 (WXGA
	Reverse polarity/Over-current/ Over-voltage	· ·	, ,
	Reverse polarity/Over-current/	Resolution Contrast Ratio	1280 x 800 (WXGA
Protection Other	Reverse polarity/Over-current/ Over-voltage	Resolution Contrast Ratio Colors	1280 x 800 (WXGA 800:1
	Reverse polarity/Over-current/ Over-voltage	Resolution Contrast Ratio	1280 x 800 (WXGA 800:1 16.2M