

RS-S1H CYCLOPS

TACTICAL COMPUTER SYSTEM







OVERVIEW

The RS-S1H Cyclops 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.

Cyclops features a Hi-Bright backlit LCD display (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 Cyclops 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. Cyclops 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
- 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-S1H CYCLOPSSPECIFICATIONS

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 Expansio	on	Watchdog Timer	Reset: 1 to 255 sec./min. per step
Mini PCle	4x Mini PCle Socket: - 3x full-size for PCle/USB/external SIM card/mSATA - 1x full-size for PCle/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 31013	Weight	~ 30 lbs.
Jiorage	Av. CATA III averaged CAN DAID 0. 4. F. 40.	Enclosure	
SATA	4x SATA III support S/W RAID 0, 1, 5, 10 - 3x SATA III (6GB/s)	Model	Pelican® 1525 Air
	- 1x SATA III co-lay w/mini PCle (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	an processic parge reme
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	EMI	Designed to meet or exceed MIL-STD-461
		Quality	200.g00 to00t or 0.0000 0.2
Interface	3-pin circular connector: V+, V-, chassis ground	ISO	ISO 9001:2015
		Display	130 900 1.20 13
Remote Switch	Optional		13.3" wide TFT LCD, LED backlit
gnition Control	16 mode (internal)	Description	
Surge Protection	Up to 80V/1ms transient power	Display Area (mm)	286.08 x 178.8
Protection	Reverse polarity/Over-current/	Brightness	Sunlight readable (1000 cd/m²)
	Over-voltage	Resolution	1280 x 800 (WXGA
Other	Power status indication	Contrast Ratio	800:1
		Colors	16.2M
		Response Time	16ms
		Options	5-wire resistive touchscreen
			HDMI video out