

RS-S3H CERBERUS

RUGGED TACTICAL COMPUTER SYSTEM



Product appearance may vary



The RS-S3H Cerberus Tactical Computer System was designed 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.

Cerberus features three sunlight-readable backlit LCD displays 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 Cerberus is available with up to 64 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 25 lbs. Cerberus systems are among the lightest and most powerful tactical computer systems available.

- Rugged design for harsh environments
- Lightweight - only 25 lbs.
- Pelican™ brand 1525 Air Case enclosure
- 3 Hi-Bright LCD displays - sunlight readable
- Quad Core 6th Generation Intel® Xeon™ E3-1505m v5
- 2 DDR4 2133MHz Memory, up to 64GB
- Fanless, -20°C to 60°C operating temperature
- Ruggedized water-resistant keyboard
- Touchscreen optional

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SPECIFICATIONS

System

Processor	Intel® Xeon® E3-1505M v5
Chipset	Intel® CM236
BIOS	AMI
SIO	IT8786E
Memory	2 DDR4 2133, up to 64GB
GPU	Intel® HD Graphics P530

I/O Interface

USB	4 USB 3.0 (external)
SIM Card	4 sockets (internal)
LAN 1	Intel® 1219LM Ethernet LAN (supports iAMT 11.0)
LAN 2	Intel® 1210 Ethernet LAN

Optional Internal Expansion

Mini PCIe	4 Mini PCIe Socket : • 3 Full-size for PCIe/ USB/ External SIM Card/ mSATA • 1 Full-size for PCIe/ Internal SIM Card/ mSATA
PCI/PCIe	1 PCI/PCIe x 16 slot
SUMIT A, B	2 slots

Storage

SATA	4 SATA III support S/W RAID 0, 1, 5, 10 - 3 SATA III (6GBps) - 1 SATA III co-lay w/Mini PCIe (6GBps)
mSATA	4 mSATA connection: - 3 SATA III (Mini PCIe Type, 6GBps) - 1 SATA III co-lay w/SATA (Mini PCIe Type, 6GBps)
Default Storage Config.	4 2.5" SSD, 1TB ea., RAID 1 configuration

Audio

Codec	Realtek ALC892, 5.1 Channel HD Audio
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Power

Battery Power	Optional battery packs available
AC/DC Input	6-36V, DC-in, 12V auto adapter and 120V AC adapter available
Interface	3-pin Terminal Block: V+, V-, Frame Ground
Remote Switch	3-pin Terminal Block
Ignition Control	16 mode (internal)
Surge Protection	Up to 80V/1ms Transient Power

Processor Performance

No. of Cores	4
No. of Threads	8
Base Frequency	2.80 GHz
Max Frequency	3.70 GHz
Cache	8 MB Smart Cache
Bus Speed	8 GT/s DMI3
TDP	45W configurable to 35W

Operating System Support

OS	Windows 10, Windows 8.1, Windows 7, Linux
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Other

Trusted Platform Mobile	TPM 2.0
Watchdog Timer	Reset: 1 to 255 sec./min. per step
Smart Management	Wake on LAN, PXE supported
HW Monitor	Temp. & Voltage - Auto throttle on CPU overheat

Mechanical

Dimensions	21.5 x 13.5 x 7.7 (L x W x H - inches)
Weight	25 lbs.

Carrying Case

Model	Pelican® 1525 Air
Construction	Proprietary HPX ² Polymer
Other	Air Pressure Purge Valve

Environmental

Operating Temp.	-20° to 60° C (-4 to 140° F)
Storage Temp.	-40° to 85° C (-40 to 185° F)

Testing

Shock	Pending, Designed to Meet: MIL-STD-810
Vibration	Pending, Designed to Meet: MIL-STD-810
EMI	Pending, Designed to Meet: MIL-STD-461

Quality

ISO	ISO9001
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Displays

Description	13.3" Wide TFT LCD, LED Backlit 1000nits, WXGA
Display Area (mm)	286.08 x 178.8
Brightness	Sunlight Readable (1000 cd/m ²)
Resolution	1280 x 800 (WXGA)
Contrast Ratio	800.1
Pixel Pitch (mm)	0.2235(H) x 0.2235(V)
Viewing Angle	+70°~ 70°(H), +60°~ 60°(V)
Colors	16.2M
Response Time	16ms
Power Consumption	7.5W
Dimensions (mm)	299 x 195 x 7.7 (each)
Weight	752g (each)