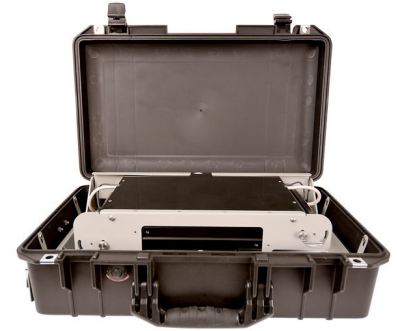


RS-S3H CERBERUS TACTICAL COMPUTER SYSTEM



ABOUT

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® Skylake processors into a rugged, lightweight Pelican™ brand 1525 Air Case that is ready to deploy in the harshest operating environments. Cerberus features three Hi-Bright 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 32 Gb RAM, 6 external USB ports, and 16 GPIO. Cerberus offers configurable ignition power control, 12-36 volts DC power input with 80 volt surge protection, standard MIL-type connectors, and a -40°C to 75°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.

FEATURES

- Rugged design for harsh environments
- Lightweight - only 25 lbs.
- Pelican™ brand 5125 Air Case enclosure
- 3 Hi-Bright LCD displays - 16.7M colors/1000 nits
- Ruggedized, water-resistant keyboard
- LGA 1151 Socket with Quad Core 6th Generation Intel® Core™ i7/i5/i3 Processor (Skylake-S)
- 2 DDR4 2133MHz Memory, up to 32GB
- Fanless, -40°C to 75°C Operating Temperature
- 12V to 36V DC-in with 80V Surge Protection
- Configurable Ignition Power Control

System

Processor	Intel® Xeon® E3-1505M v5 (Skylake-H)
Chipset	Intel® CM236
BIOS	AMI
SIO	IT8786E
Memory	2 DDR4 2133/ 1866 MHz SO-DIMM, up to 64GB

I/O Interface

Serial	4 COM RS-232/422/485
USB	6 USB 3.0 (PC external) 1 USB 2.0 (PC internal)
Isolated DIO	16 isolated DIO - 8 DI, 8 DO
LED	Power, HDD
SIM Card	4 sockets - (3 PC external, 1 PC 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 (optional)

Graphics

GPU	Intel® HD Graphics P530
Interface	DVI-I: 1920 x 1200 @ 60Hz Display Port 1: 4096 x 2304 @ 60Hz Display Port 2: 4096 x 2304 @ 60Hz

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)
Storage Device	4 2.5" SSD, 1TB ea., RAID 1 configuration

Audio

Codec	Realtek ALC892, 5.1 Channel HD Audio
Interface	1 Mic-in, 1 Line-out

Ethernet

LAN 1	Intel® 1219LM gigabit LAN (supports iAMT 11.0)
LAN 2	Intel® 1210 Gigabit LAN
LAN 5-6	Gigabit IEEE 802.3at (25.5W/48V) PoE by Intel® 1210

Power

Input	6-36V, DC-in
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	3.50 GHz
Cache	8 MB Smart Cache
Bus Speed	8 GT/s DMI3
TDP	45 W

Software Support

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

TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC
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 x 13 x 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

Environmentals

Operating Temp.	-25° to 70° C (-13 to 158° F)
StorageTemp.	-40° to 85° C (-40 to 185° F)
Humidity	5% to 95% non-condensing
Relative Humidity	95% at 70° C
Shock	Designed to Meet: MIL-STD-810
Vibration	Designed to Meet: MIL-STD-810
EMI	Designed to Meet: MIL-STD-461

Displays

Input Voltage	10 to 12V DC-input
Input Current	3mA (low brightness) .706A (high brightness)
LED Current	0.0A (low brightness) ,308A (high brightness)
Working Frequency	900-1000 KHz
PWM Frequency	180-200 Hz
Brightness Control	0.5 - 4.8 V
ON/OFF Control	2-5 V
Output Voltage	20.375 - 20.368 V
Efficiency	88.89 - 88.21%