

# VSS-HES-16RJ-I7

## 4-Bay Small Form Factor Harsh Environment Server

### 16-PORT POE RIGID SERVER FOR IN-VEHICLE AND RAIL











The VSS-HES-16RJ-I7 supports 16-port gigabit PoE and can work in harsh temperatures.

It comes with 16 gigabit PoE ports and is powered by Intel® Core™ i7 or i5 processors. It also has two front-accessible SIM slots and four holes for mounting SMA-type antenna connectors.

This in-vehicle server is in compliance with E-Mark and EN 50155 for mobile surveillance applications. With wireless LAN modules, this user friendly in-vehicle server can real-time transmits the video to the control center. The two built-in or four swappable SATA hard drives are used for mass storage of video files.



### KEY FEATURES

-  Up to 32GB DDR4 RAM
-  7th Generation Intel® Core™ Processor
-  NVMe & SATA Drives
-  Supports Cellular/GPS/Wi-Fi Modules
-  RAID Options 0, 1, 10
-  3-Year Advanced Replacement Warranty
-  Harmonize Bridge, powered by Tiger Technology
-  EN 50155 Certified
-  (16) RJ45 PoE Ports
-  -40°F (-40°C) to +158°F (+70°C)



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# VSS-HES-16RJ-I7

## 4-Bay Small Form Factor Harsh Environment Server

### SYSTEM

#### Manufacturer

BCD

#### Memory

Standard Configuration: 16GB (2x 8GB)  
Maximum Configuration: Up to 32GB  
(2x DDR4 SO-DIMM Slots)

#### Processor(s)

(1) Intel® Core™ 7th Generation Processor  
(Up to 4 Cores, 8 Threads, 3.80GHz)

#### Processor Passmark

Intel® Core™ i5-7500T: 6,950  
Intel® Core™ i7-7700T: 9,288

#### Networking

(16) 1GbE RJ45 Ports (IEEE 802.3af/802.3at)

#### Expansion Slots

(2) Full-size PCIe Mini Card Slot,  
(2) USB/PCIe External SIM Socket,  
(2) Half-size PCIe Mini Card Slot

#### I/O Ports

(4) USB 3.0, (2) DB-9 or RS232/422/485,  
(5) Antenna Openings, (1) Terminal Block  
6-in/2-out DIO

#### Video Outputs

(1) VGA, (1) HDMI 1.4b, (1) DVI-D

#### Operating System

Windows 10 IoT Embedded

### MECHANICAL

#### Form Factor

Small Form Factor

#### Power Supply(s)

24V DC Power Supply (qty of cameras required  
for Wattage)

#### Operating Temperature

(Min) -40°F - (Max) 158° F [(Min) -40°C - (Max) 70° C]

#### Operating Humidity

0 ~ 95% (non-condensing)

#### Heat Dissipation

1405 Max BTU/hr

#### Dimensions (WxDxH)

11.02" x 8.27" x 3.91" (280mm x 210.5mm x 99.2mm)

#### Max. Weight

12.65 lbs. (5.74 kg)

#### Warranty

3-Year Advanced Replacement

#### Shock Endurance

EN 50155 EN (IEC) 61373 Category 1 Class B,  
Halfsine pulse, 5g, 30ms (longitudinal direction),  
3g, 30ms (vertical/transverse direction compliant)

#### Vibration Endurance

3 Grms with SSD (5 to 500 Hz, X, Y, Z direction;  
random, operating) MIL-STD-810G: Method  
514.6C-VL Category 4 Compliant EN 50155 EN  
(IEC) 61373 Category 1 Class B Compliant

#### Certifications

CE (Class A), FCC Class A, EN 50155,  
ISO 7637-2 Compliant

### STORAGE

#### Hard Drive Bays

(1) Half-sized mSATA Slot & (4) 15mm 2.5" Drive  
Bays

#### Hard Drives Supported

NVMe & SATA

#### RAID

RAID 0, 1, 10