Cisco Physical Security Multiservices Platform for Video Surveillance

The Cisco® Physical Security Multiservices Platform (MSP) for Video Surveillance is a suite of three server models that offer you innovative choices for network digital recording and playback. It includes options for built-in analog video encoder cards (1-RU and 4-RU) and fiber channel interfaces. Optional video encoder cards enable network connectivity for analog video cameras. Fully integrated with the Cisco Video Surveillance Manager software family, each MSP model (Figure 1) provides a wide array of features in a single easy-to-use and easy-to-deploy component. Each platform offers scalable and flexible options for replacing traditional analog or digital video recorders in a variety of video surveillance deployments.

Features and Benefits

The Cisco Physical Security MSP for Video Surveillance is available with Cisco Video Surveillance Manager (VSM) software and includes the following device options.

The 1-rack-unit (RU) MSP for Video Surveillance is an entry-level device that supports up to four 750 GB or 1 TB SATA hard drives. It supports one of the following Option Cards at a time:

- 1 × CIVS-FC-1P-Fibre Channel Card
- 1 × CIVS-ES-16EC-16-channel Encoder Card for MPEG-4/JPEG (at CIF resolution)

The 2-RU MSP for Video Surveillance supports up to twelve 750 GB or 1 TB SATA hard drives. It supports the following Option Card:

- 1 × CIVS-FC-1P-Fibre Channel Card

The 4-RU MSP for Video Surveillance supports up to twenty-four 750 GB or 1 TB SATA hard drives. It supports the following Option Cards:

- 1 × CIVS-FC-1P-Fibre Channel Card
- 1 or 2 × CIVS-ES-16EC-16-channel Encoder Card for MPEG-4/JPEG (at CIF resolution)

Figure 1. Cisco Physical Security Multiservices Platform for Video Surveillance

The Cisco Physical Security MSP for Video Surveillance offers a variety of benefits, including:

- High storage density
- System resiliency
- Hardware diagnostics
- High-performing motherboards
- Expansion capability

Key Features

Table 1 lists the key features of the Cisco Physical Security Multiservices Platform for Video Surveillance.

Table 1. Cisco Physical Security MSP for Video Surveillance Key Features

Item	1-RU	2-RU	4-RU
Field-replaceable high-performance fans with built-in redundancy for optimized cooling	Yes	Yes	Yes
System health and management features, including a convenient power switch, reset button, and LED indicators	Yes	Yes	Yes
High-efficiency power supply	300W	900W	900W
Redundant power supply (optional)	–	900W	900W
Fibre Channel card option	1 card*	1 card	1 card*
Analog video encoder card for MPEG-4/JPEG option	1 card*	–	Up to 2 cards*
Hot-swappable hard-disk drives that can be removed without powering down the server	–	Yes	Yes
RAID-5 configuration for storage resiliency	–	Yes	Yes

* See device options above for option card and slot limitations.

Connectors

Table 2 describes the connectivity and connectors of the Cisco Physical Security Multiservices Platform for Video Surveillance.

Table 2. Multiservices Platform I/O Connections

Item	Specification
USB 2.0	2 ports standard
10/100/1000M Ethernet	2 ports standard
Analog video inputs	16 to 32 ports, depending on platform and video card options
Serial (RS-232)	1 port standard
Fibre Channel	1 port optional

Specifications

Tables 3, 4, and 5 provide mechanical specifications for the Cisco Physical Security Multiservices Platform for Video Surveillance.

Table 3. 1-RU MSP Technical Specifications

Item	Specification
Housing	1-RU × 19 in., 4 × SATA front-loading drive bays
Motherboard	Intel Core2 Duo Processor E4300 1.80 GHz, 2 GB DDR2 SDRAM
LEDs	Power, hard-drive activity, network activity, system overheat/fan fail
Gross weight	38 lb. (17.2 kg), with 4 × HDD and power supply, no cards

Item	Specification
Dimension	1.7 in. × 17.2 in. × 19.8 in. (43 mm × 437 mm × 503 mm)
Power supply	300W
Power requirements (no option cards)	• 110V/60Hz: Spin-up surge: 226 W, Steady-state: 139 W • 220V/60Hz: Spin-up surge: 237 W, Steady-state: 150 W
Operating temperature	50° to 95° F (10° to 35°C)
Non-operating temperature	–40° to 158°F (–40° to 70°C)
Operating relative humidity	8% to 90% (non-condensing)
Non-operating relative humidity	5% to 95% (non-condensing)
Minimum on-board storage capacity	• 1 × 1 TB HDD—approximately 874 GB (JBOD) • 1 × 750 GB HDD—approximately 653 GB (JBOD)
Maximum on-board storage capacity	• 4 × 1 TB HDD—approximately 3.45 TB (JBOD) • 4 × 750 GB HDD—approximately 2.58 TB (JBOD)
Number of on-board storage repositories	1 per hard drive, up to 4

Table 4. 2-RU MSP Technical Specifications

Item	Specification
Housing	2-RU × 19 in., 12 × SATA front-loading drive bays
Motherboard	Single Quad-core Intel Xeon Harpertown E5410 Processor, 2 GB DDR2 SDRAM
LEDs	Power, hard drive activity, network activity, system overheat/fan fail
Gross weight	52 lb. (23.6 kg), with 12 × HDD and power supply, no cards
Dimensions	3.5 in. x 17.2 in. x 25.5 in. (89 mm × 437 mm × 648 mm)
Power supply	1 × 900W power supply
Redundant power supply	1 × 900W (1+1) redundant power supply (optional)
Power requirements (no option cards)	• 110 V/60 Hz: Spin-up surge: 596 W, Steady-state: 345 W • 220 V/60 Hz: Spin-up surge: 600 W, Steady-state: 356 W
Operating temperature	50° to 95° F (10° to 35°C)
Non-operating temperature	–40° to 158°F (–40° to 70°C)
Operating relative humidity	8% to 90% (non-condensing)
Non-operating relative humidity	5% to 95% (non-condensing)
Minimum on-board storage capacity	• 4 × 1 TB HDD—approximately 2.58 TB (RAID-5) • 4 × 750 GB HDD—approximately 1.93 TB (RAID-5)
Maximum on-board storage capacity	• 12 × 1 TB HDD—approximately 9.49 TB (RAID-5) • 12 × 750 GB HDD—approximately 7.12 TB (RAID-5)
Number of on-board storage repositories	1

Table 5. 4-RU MSP Technical Specifications

Item	Specification
Housing	4-RU × 19 in., 24 × SATA front-loading drive bays
Motherboard	Single Quad-core Intel Xeon Harpertown E5410 Processor, 2 GB DDR2 SDRAM
LEDs	Power, hard drive activity, network activity, system overheat/fan fail
Gross weight	75 lb. (34 kg), with 24 × HDD and power supply, no cards
Dimensions	7.0 in. x 17.2 in. x 26.0 in. (178 mm × 437 mm × 660 mm)
Power supply	1 × 900W power supply
Redundant power supply	1 × 900W (1+1) redundant power supply (optional)
Power requirements (no option cards)	• 110 V/60 Hz: Spin-up surge: 982 W, Steady-state: 455 W • 220 V/60 Hz: Spin-up surge: 926 W, Steady-state: 450 W
Operating temperature	50° to 95° F (10° to 35°C)

Item	Specification
Non-operating temperature	–40° to 158°F (–40° to 70°C)
Operating relative humidity	8% to 90% (non-condensing)
Non-operating relative humidity	5% to 95% (non-condensing)
Minimum on-board storage capacity	4 × 1 TB HDD—approximately 2.58 TB (RAID-5) 4 × 750 GB HDD—approximately 1.93 TB (RAID-5)
Maximum on-board storage capacity	24 × 1 TB HDD—approximately 19.86 TB (RAID-5) 24 × 750 GB HDD—approximately 14.89 TB (RAID-5)
Number of on-board storage repositories	1

Certifications

Please visit the Product Approval Status (PAS) tool for country approval status: http://tools.cisco.com/cse/prdapp

Ordering Information

To place an order, visit the Cisco Ordering Homepage. To download firmware, visit the Cisco Software Center. Table 6 provides ordering information for the Cisco Physical Security Multiservices Platforms.

Table 6. Multiservices Platform Ordering Information

Item	Specification
CIVS-MSP-1RU	1-RU chassis with motherboard, one CPU, and one 300W power supply (no drives, no power cables, and no option cards)
CIVS-MSP-2RU	2-RU chassis with motherboard, one CPU, RAID controller, one 900W power supply (no drives, no power cables, and no option cards)
CIVS-MSP-4RU	4-RU chassis with motherboard, one CPU, RAID controller, one 900W power supply (no drives, no power cables, and no option cards)
CIVS-HDD-750	750 GB SATA drive for CIVS-MSP platforms
CIVS-HDD-1000	1 TB SATA drive for CIVS-MSP platforms
CIVS-PS-900	Redundant 900W power supply option for 2-RU and 4-RU platforms only
CIVS-FC-1P	Fibre Channel option for CIVS-MSP platforms
CIVS-ES-16EC	Cisco Video Surveillance 16-channel (at CIF resolution) encoder card for MPEG-4/JPEG with software license option for the 1-RU and 4-RU platforms only

Note: Power cables are not included by default.

Availability

All Cisco Physical Security Multiservices Platform for Video Surveillance servers are available through Cisco Authorized Technology Provider Partners.

Service and Support

Cisco and our certified partners can help you accelerate success and improve the return on your investment in a Cisco Physical Security Solution. The Cisco lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle:

- Reduce deployment costs by identifying the features that will best meet your business requirements
- Accelerate migration by assessing the readiness of your network to support the system and by developing a sound design
- Support smooth implementation through effective planning and expert installation, configuration, and integration
- Increase operational efficiency and extend the value of your investment with superior technical support

For more information about Cisco services, visit http://www.cisco.com/go/services.

For More Information

For more information about the Cisco Physical Security Multiservices Platforms, contact your local account representative or visit: http://www.cisco.com/go/physec

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV
Amsterdam, The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

Printed in USA C78-490683-03 02/10