

# Hardware Specifications

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This appendix lists the hardware specifications for the Cisco IP/TV 3400 Series Servers, and includes the following sections:

- Cisco IP/TV 3411 Control Server
- Cisco IP/TV 3415 Starter System
- Cisco IP/TV 3423 Broadcast Server
- Cisco IP/TV 3431 Archive Server
- Agency Compliance

## Cisco IP/TV 3411 Control Server

**Video storage**

N/A

**Network connectivity**

One 10/100 Ethernet NIC

**MPEG Capture card**

N/A

**VFW Capture card**

N/A

**Peripherals<sup>1</sup>**

VGA graphics, keyboard, mouse, CD-ROM, floppy drive

**Network interoperability**

All IP-based networks, IETF IP Multicast

**Height**

7 in. (178 mm)

**Width**

19 in. (483 mm)

**Depth**

24.25 in. (516 mm)

**Weight**

38 lbs

**Power supply**

300W

**Autoswitching**

115/230 VAC

1. Video monitor (VGA compatible) is not included with any of these servers.

**Frequency**

60/50 Hz

**Current**

7.0/3.5 Amps

**Operating temperature**

5 to +35°C

(41°F to 95°F)

**Nonoperating temperature**

-25°C to +70°C

(-13°F to +158°F)

**Operational humidity**

85% relative humidity

**Heat dissipation<sup>1</sup>**

1024 BTUs per hour

1. Worst case with full power usage.

## Cisco IP/TV 3415 Starter System

### Video storage

30 hours of MPEG1 at 1 Mbps

### Network connectivity

One 10/100 Ethernet NIC

### MPEG Capture card

MPEG1/MPEG2 Half D1

### VFW Capture card

N/A

### Maximum performance

Serve 15 Mbps of MPEG1, 1 Mbps, and 30 frames per second *and*:

- Stream one MPEG1 live capture program with 320x240 resolution, 1500 Kbps, and 30 frames per second *or*
- Stream one MPEG2 live capture program with 352x480 resolution, 3000 Kbps, and 30 frames per second

### Peripherals<sup>1</sup>

VGA graphics, keyboard, mouse, CD-ROM, floppy drive

### Network interoperability

All IP-based networks, IETF IP Multicast

### Height

7 in. (178 mm)

### Width

19 in. (483 mm)

### Depth

24.25 in. (516 mm)

1. Video monitor (VGA compatible) is not included with any of these servers.

**Weight**

40 lbs

**Power supply**

300W

**Autoswitching**

115/230 VAC

**Frequency**

60/50 Hz

**Current**

7.0/3.5 Amps

**Operating temperature**

5 to +35°C (41°F to 113°F)

**Nonoperating temperature**

-25°C to +70°C  
(-13°F to +95°F)

**Operational humidity**

85% relative humidity

**Heat dissipation<sup>1</sup>**

1024 BTUs per hour

1. Worst case with full power usage.

## Cisco IP/TV 3423 Broadcast Server

### **Video storage**

10 hours of MPEG2 @ 6 Mbps

### **Network connectivity**

One 10/100 Ethernet NIC

### **MPEG Capture card**

MPEG2 Full D1, MPEG2 Half D1, MPEG1

### **VFW Capture card**

MPEG4 and H.261

### **Maximum performance**

Stream one MPEG2 live capture program with a 704x480 resolution, 6000 Kbps, and 30 frames per second while serving 15 Mbps of MPEG1, 1 Mbps, and 30 frames per second content

### **Peripherals<sup>1</sup>**

VGA graphics, keyboard, mouse, CD-ROM, floppy drive

### **Network interoperability**

All IP-based networks, IETF IP Multicast

### **Height**

7 in. (178 mm)

### **Width**

19 in. (483 mm)

### **Depth**

24.25 in. (516 mm)

### **Weight**

42 lbs

1. Video monitor (VGA compatible) is not included with any of these servers.

**Power supply**

300W

**Autoswitching**

115/230 VAC

**Frequency**

60/50 Hz

**Current**

7.0/3.5 Amps

**Operating temperature**

5 to +35°C

(41°F to 95°F)

**Nonoperating temperature**

-25°C to +70°C

(-13°F to + 158°F)

**Operational humidity**

85% relative humidity

**Heat dissipation<sup>1</sup>**

1024 BTUs per hour

1. Worst case with full power usage.

## Cisco IP/TV 3431 Archive Server

### **Video storage**

120 hours of MPEG1 @ 1 Mbps

### **Network connectivity**

One 10/100 Ethernet NIC

### **MPEG Capture card**

N/A

### **VFW Capture card**

N/A

### **Maximum performance**

Serve 50 Mbps of 1 Mbps, 30 frames per second MPEG1 content

### **Peripherals<sup>1</sup>**

VGA graphics, keyboard, mouse, CD-ROM, floppy drive

### **Network interoperability**

All IP-based networks, IETF IP Multicast

### **Height**

7 in. (178 mm)

### **Width**

19 in. (483 mm)

### **Depth**

24.25 in. (516 mm)

### **Weight**

44 lbs

### **Power supply**

300W

1. Video monitor (VGA compatible) is not included with any of these servers.

**Autoswitching**

115/230 VAC

**Frequency**

60/50 Hz

**Current**

7.0/3.5 Amps

**Operating temperature**

5 to +35°C

(41°F to 95°F)

**Nonoperating temperature**

-25°C to +70°C

(-13°F to +158°F)

**Operational humidity**

85% relative humidity

**Heat dissipation<sup>1</sup>**

1024 BTUs per

1. Worst case with full power usage.

# Agency Compliance

The IP/TV 3400 Series Servers have the following agency approvals:

### **Safety Compliance**

- UL (1950 Standard)
- CUL (CSA 22.2 No. 950)
- CE Marks (EN 60950, IEC 60950)

### **EMC Compliance**

- FCC Class A :47CFR FCC Part 15; (USA)
- CISPR22 Class A; 1997
- EN55022 Class A; 1994 (Europe)
- AS/NZS 3548 Class A; 1995 (Australia)
- ICES003, Issue 3; 1998 (Canada)
- VCCI Class A (Japan)

### **Immunity per EN50082-1: 1997**

- EN61000-4-2: 1995
- EN61000-4-3: 1995
- EN61000-4-4: 1995