ılıılı cısco

Cisco PowerVu D9190 Conditional Access Manager

The Cisco PowerVu[®] D9190 Conditional Access Manager (PCAM) is one of the core components of the PowerVu next-generation system. The Cisco[®] D9190 is used for encrypting services with Cisco PowerVu Conditional Access (PCA), and is designed for use with the Cisco Digital Content Manager (DCM) to provide a functional replacement for the PowerVu D9140 Advanced Multiplexer.

For network monitoring and control, the Cisco D9190 (Figures 1 and 2) is integrated with Cisco PowerVu Network Centre (PNC).

Figure 1. Cisco PowerVu D9190 Conditional Access Manager



Figure 2. Cisco D9190 Rear Panel

5	¢			DD
---	---	--	--	----

Chassis Overview

The D9190 chassis features dual-redundant and hot-swappable power supplies. It has the capacity to hold up to six modules. The chassis supports advanced internal common synchronization mechanisms that can be used to synchronize the various services being hosted. Dedicated management and auxiliary input ports are also provided for control system monitoring and communication. The PowerVu Conditional Access (CA) modules are field-replaceable to allow for fast service with minimum downtime. A contact-closure output is used to signal a major alarm to the control system when it is active.

Cisco PCA

The PCA module is used to encrypt entitlement control message (ECM) and entitlement management message (EMM) traffic and to communicate with a DCM using various Simulcrypt protocols. The PCA module has four 1000BASE-T Ethernet ports, one of which is used to communicate with the DCM Multiplexer.

Features

- PCA encryption
- Dual-redundant, hot-swappable power supplies
- Support for one PCA module
- PNC management support

- Support for up to 85 services
- Simulcrypt communications support

Specifications

Table 1 lists specifications for the Cisco PowerVu D9190 Conditional Access Manager.

Table 1.	Product Specifications
----------	------------------------

Feature	Description			
Conditional Access				
Brand	PowerVu CA			
Crypto cycle	>= 1 sec			
Services	85			
Management				
Control system	Integrated in PNC			
Inputs/Outputs				
Number of ports	Port 1 is for Simulcrypt communications Ports 2, 3, and 4 are unused			
Туре	Eight-pin RJ-45, MDI			
Ethernet type	100/1000BASE-T			
Format	Simulcrypt protocols			
Environment and Physical				
Dimensions	1.73 in. H x 21.42 in. W x 17.36 in. D (4.4 cm H x 54.4 cm W x 44.1 cm D) 1U high, 19 in. rack-mountable, stackable			
Operating temperature	32°to 122°F (0°to 50°C)			
Storage temperature range	14°to 158°F (-10°to 70°C)			
Weight	20.2 lb (9.2 kg)			
Relative humidity	0 to 95%, noncondensing			
Cooling	Forced cooling with air inlets on front panel, air exit at rear			
Power Requirements				
Voltage range	90 to 264 VAC input			
Line frequency	47 to 63 Hz			
Consumption	400W maximum (typical power consumption is 120W)			
Regulatory Compliance Standards				
CFR 47, Part 15, Subpart B Class A Unintentional Radiators				
CISPR 22:2008-09				
EN 55022:2006 +A1:2007, Class A - Information Technology Equipment				
CISPR 24:1997 +A1:2001, +A2:2002				
EN 55024:1998 +A1:2001, +A2:2003 EMC Requirements - Information Technology Equipment - Immunity Characteristics				
IEC 61000-3-2:2005/EN 61000-3-2:2006 Harmonic Currents, Class A				
IEC 61000-3-3:2002/EN 61000-3-3:1995' +A1:20	01, +A2:2005 Flicker			
Australia Radio Communications (Electromagneti	c Compatibility) Standard 2008			
CAN/CSA-C22.2 No. 60950-1-07				
UL 60950-1 Ed. 2 Mar 27 2007				
IEC 60950-1-am1 ed2.0 (2009-12), including all country and regional differences currently in force				
EN 60950-1:2006+A1:2010				

Ordering Information

Table 2 provides ordering information for the Cisco PowerVu D9190 Conditional Access Manager.

Table 2. Ordering Information

Chassis	Part Number			
Chassis, D9190, 1RU (include 2AC power supply, software)	D9190-1RU			
Chassis, D9190, 1RU, spare	CHAS-D9190-1RU=			
Hardware Modules				
Module, D9190, PCA card	D9190-PCA-K9			
Module, D9190, PCA card, spare	D9190-PCA-K9=			
Power Supply				
PSU, D9036/D9190, AC, 400W, spare	D9036-PWR-400W-AC=			
Accessories				
Kit, D9036/D9190, fan replacement, 1RU, spare	D9036-FAN-1RU=			
Kit, D9036/D9190, air filter, 1RU, spare	D9036D9190-DUST=			

Service and Support

Using the Cisco Lifecycle Services approach, Cisco and its partners provide a broad portfolio of end-to-end services and support that can help increase your network's business value and return on investment. This approach defines the minimum set of activities needed by technology and by network complexity to help you successfully deploy and operate Cisco technologies and optimize their performance throughout the lifecycle of your network.

For More Information

To learn more about this product, contact your local account representative.

To subscribe to receive end-of-life/end-of-sale information, go to http://www.cisco.com/cisco/support/notifications.html.



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.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Printed in USA