

Cisco ROSA Server MKVI

Description

Working in harmony with the Cisco® ROSA management software, the ROSA® Server provides the user with outstanding reliability and flexibility. Together, ROSA Server MKVI and the ROSA Network Management System (NMS), ROSA Video Service Management System (VSM) and ROSA Service Information Manager (SIM) provide the user with unique management possibilities. Both the hardware and the software of the ROSA Server and the ROSA Server Software Applications are completely modular, thereby enabling Cisco to adapt to the specific needs of your network. No matter which application, IP headend in cable headend, telco headend and hubs, HFC network, terrestrial network, contribution network, satellite uplinks, broadcast networks, or others, the ROSA Server and ROSA Management Suite Software offers outstanding value.

Figure 1. ROSA Server MKVI



A Complete, Powerful Solution

The Cisco ROSA video management solution supplies service providers with a complete, powerful solution for the management of digital content delivery platforms for broadcast over satellite, terrestrial, DSL, cable networks, and mobile TV. This solution can support a diverse range of applications, including switched digital broadcast, primary distribution, contribution, distribution, and transmission.

The ROSA Server MKVI can host the ROSA Management Software Suite – NMS, VSM and SIM. Together, the software and hardware form a reliable platform with a broad feature set allowing you to permanent monitor and provision your digital TV Headends platform. The system's feature-rich set of tools can monitor and manage digital video, audio, and applications, as well as the devices through which these services flow. This offers operators rapid access to the status of critical revenue-generating video, audio, and interactive services.

Features

Software

The ROSA Server MKVI comes pre-installed with the ROSA Management System Software (ROSA NMS) or ROSA Video Service Manager Software (ROSA VSM) or ROSA Service Information Manager Software (ROSA SIM), depending on your selection of central management software suite.

Hereby a small overview of the typical configurations:

- ROSA Management System Software (ROSA NMS)
 - Each ROSA Server MKVI system for ROSA NMS comes pre-installed with the ROSA Management System Software (ROSA NMS) and runs the Windows Server 2003 R2 Standard Edition Operating System. The customer has the choice to select a Standard System or Large System version. A Standard System runs the SQL Server 2005 Express Edition database while a Large System runs the SQL Server 2005 Standard Edition.
- ROSA Video Service Manager Software (ROSA VSM)
 - Each ROSA Server system for ROSA VSM comes pre-installed with the ROSA Video Service Management Software (ROSA VSM) and runs the Windows Server 2003 R2 Standard Edition Operating System.
- ROSA Service Information Manager Software (ROSA SIM)
 - Each ROSA Server system for ROSA SIM comes pre-installed with the ROSA Service Information Management Software (ROSA SIM) and runs the Windows Server 2003 R2 Standard Edition Operating System. For the Central SIM application, the ROSA Server is pre-installed with the Oracle 11g Database.

Hardware

- 4 Gigabit Ethernet Controllers (10BASE-T / 100BASE-TX / 1000BASE-TX)
- Hot-pluggable hard disks (RAID technology) with optional hot-spare disk
- Fully redundant fans
- Hot-pluggable redundant power supply
- Extended warranty period of 3 years
- Optional: DekTec DTA 160 SI spooling card

Support for High Availability solution

- Optionally, the ROSA Server can be equipped with the High Availability Software solution allowing you to turn a ROSA Server Pair into a Warm Standby solution.
- The ROSA High Availability Solution provides ROSA NMS and ROSA VSM to operate in a warm redundant setup, allowing the operator to minimize its downtime due to powerful failover support as well as providing operational advantages on switchover from the Primary Application to the Secondary.

Product Specifications

Table 1. Product Specifications – Basic Configuration

Specification	Value
Processor	
Quad-Core Intel® Xeon® Processor E5630 (2.53 GHz, 12 MB L3 Cache, HT)	
Memory	
Type	PC3-10600R (DDR3-1333) Registered
Size	4 GB
Expansion Slots	
PCI Express X4	1 x full-height, half-length PCI Express X4 and 1 x half-height, half-length PCI Express X4
PCI Express X8	1 x full-height, half-length PCI Express X8 and 1 x half-height, half-length PCI Express X8
64-bit 133 MHz PCI-X	2 x full-height, full-length 64-bit 133 MHz PCI-X
Peripherals	
Slimline DVD-ROM Drive	
Video Interface	
SXGA adapter	
Communication Ports	
4 x RJ-45 Ethernet connector (10BASE-T/100BASE-TX/1000BASE-TX)	
1 x RJ-45 Ethernet connector dedicated for out-of-band management (iLO)	
2 x front / 2 x rear/ 1 internal USB 2.0 connectors	
Redundant Hard Disks	
8 Small Form Factor (SFF) hot plug hard drive bays	
2 x 72 GB SAS SFF hard disks (RAID 1 configured, i.e., mirroring).	
Optional hot-spare hard disk	
Software Installation	
All software pre-installed, depending on configuration for ROSA NMS, ROSA VSM or ROSA SIM	
Remote Management	
Web user interface for server management; remote keyboard, video, and mouse (KVM); virtual media; and administration.	

Table 2. Options

Specification	Value
Options	
Hot-spare hard drive	
Redundant Power Supply	
DekTec – DVB-ASI / GBE interface card	

Table 3. Environmental Specifications

Specification	Value
Temperature Range	
Operating	50 - 95°F (10 - 35°C)
Storage	-22 - 140°F (-30 - 60°C)
Relative Humidity (non-condensing)	
Operating	10 to 90%
Non-operating	5 to 95%
Power Supply Requirements	
Rated input voltage	100 to 240 VAC
Rated input frequency	50 to 60 Hz
Maximum input current	5.5 A (100 VAC) / 2.6 A (200 VAC)
Typical power consumption (with hot-spare hard drive installed)	200 W

Table 4. Regulatory Compliance

Specification
Regulatory Compliance
The ROSA Server MKVI is covered by compliance certifications for worldwide sales. For country specific approval marks, refer to the identification label on the product. Contact Cisco Systems for specific detailed information.

Table 5. Mechanical Specifications

Specification	Value
Dimensions	
Height	3.38" / 85.9 mm (2RU)
Width	17.54" / 445.5 mm (19" mount)
Depth	27.25" / 692.2 mm
Weight	
	Approx. 60 lbs / 27 kg

Ordering Information

Table 6. Ordering Information for the ROSA Server MKVI

Product Name	Part Number
ROSA Server (Note 2)	
ROSA NMS	
ROSA System - Hardware, Software, Database and OS Licenses Contains: NMS SW 4.3, C/S, Std, MK6, 1PS, 2HDD, Incl OS, SQL Express Power Cord (Europe)	RSPN0403F1S1xxxxxx (Note 3)
ROSA VSM	
ROSA System - Hardware, Software, Database and OS Licenses Contains: VSM SW 5.0, MK6, 2PS, 2HDD, Incl OS Power Cord (Europe)	RSPV0500F1S1xxxxxx (Note 4)
ROSA SIM	
ROSA System - Hardware, Software, Database and OS Licenses Contains: SIM SW 5.0, SIM Central, MK6, 1PS, 2HDD, Incl OS, Oracle11 Power Cord (Europe)	RSPS0500F1S1xxxxxx (Note 5)
Options: Spare / Redundant Power Supply for ROSA Server	
Redundant PS ROSA Server MK6 EU	4037011
Redundant PS ROSA Server MK6 US	4037012
Redundant PS ROSA Server MK6 UK	4037013
Redundant PS ROSA Server MK6 AU	4037014
Redundant PS ROSA Server MK6 AR	4037015
Redundant PS ROSA Server MK6 CN	4037016
Redundant PS ROSA Server MK6 IT	4037017
Redundant PS ROSA Server MK6 JP	4037018
Options: Spare / Power Cords for ROSA Server	
Power Cord (Argentina)	207340
Power Cord (China)	745415
Power Cord (Australia)	1000897
Power Cord (Europe)	3989835
Power Cord (UK)	3989836
Power Cord (US)	3989838
Power Cord (Italy)	3993130
Power Cord (Japan)	3993133

1. Serial Cards are not supported since introduction of ROSA Server MKVI.
2. Each individual system, ROSA NMS, ROSA VSM and ROSA SIM requires its individual licenses and options, please check ROSA Configurator for detailed PID structure and systems licensing.
3. Example for ROSA NMS 4.3 Software Version.
4. Example for ROSA VSM 5.0 Software Version.
5. Example for ROSA SIM 5.0 Software Version.

Product Name	Part Number
Option: Spare / Hot Standby Disk Kit ROSA Server	
ROSA Server Stand-by Removable Harddisk, MK5/MK6	4020216
Option: Spare / NIC	
COPERNICUS Kit, Add. NIC Card for Cop MKIVG4,G4p, MKV, MKVI	4036172
Option: DekTec interface card	
DekTec: DVB-ASI (3) / GBE (1) card	4030587
High Availability Option	
High Avail Upgrade Pack(HA-Neverfail License + 2x Eth Cards)	4028061

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Manage your network with ROSA service and element management. Get faster mean-time-to-repair, increased uptime, and management that evolves as you provision your networks.

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