

Ventura

FCS101-AEMS

Advanced Element Management System (AEMS)

This AEMS element manager provides remote monitoring and configuration functionality for the Ventura series VS101 chassis. The AEMS card enables you to monitor and configure all Ventura video transport cards in a chassis using a built in Web-based interface or the industry standard SNMP protocol.

The Web based interface provides an updated snapshot of the chassis with the status of each front panel LED, allowing the viewing or configuration of each card. AEMS also lists the alarms for each card or the entire chassis, and offers a highly configurable handling of alarms at the element management level.

The SNMP interface provided by AEMS integrates with existing SNMP management solutions. AEMS sends notifications to the SNMP manager if alarm situations occur that require corrective action.

Applications

- Professional broadcast contribution
- Studio-to-studio media exchange
- Live sports and event contribution
- Managed video services over IP

Key features

- Web browser user interface, including VS101 chassis display with LED status
- Remote monitoring and configuration of Ventura line cards
- Configurable alarm handling including severity, grouping and filtering
- Identifies issues quickly and logs events for future analysis
- SNMP agent for integration with Network Management Systems
- Remote firmware upgrade of Ventura line cards

Card 3: VS902 JPEG 2000 Decoder, V2.8, Serial#359281
VS902 JPEG 2000 Decoder, Slot 3

Status Summary
 Card Configuration Status
 Channel Name Status
 Output 1 Status
 Output 3 Status
 Card License Details
 Alarm Configuration Status
 Alarm Group Configuration Status
 Alarm Statistics
 History

VS902 JPEG 2000 Decoder, Slot 3 ✔

Edit Card Configuration - Card 3 : VS902 JPEG 2000 Decoder, Main

Card Functional Mode	1G J2K Decoder V2.8
Maintenance IP Address	0.0.0.0
Network Interface Mode	Autonegotiate All Speeds
Network Output Mode	Standalone
ARP/Ping Responses For Disabled Channels	Enabled
Network Statistics Display	Instantaneous
Cumulative Statistics Reset	Don't Reset
IGMP Version Support	Automatic
In Band Management	Disabled
Custom In Band Management VLAN	Enabled
Custom In Band Management VLAN ID	2
In Band Management IP Address	11.0.0.142
In Band Management Subnet Mask	255.255.255.0
In Band Management Default Gateway	11.0.0.1
Auxiliary Data Port	Disabled
Auxiliary Data Port VLAN ID	0
Auxiliary Data Port Rate Limit	1000

Features

- Automatic recognition of line cards; supports full fault and configuration management out-of-box
- User definable alarms based on priority (major, minor or no alarm)
- Date time stamped history and data recording in Flash memory (buffer)
- Chassis environment reporting using temperature and fan speed sensor (LED indicators)
- Safe transfer of firmware to Ventura line cards (starts using new firmware after validation)
- Supports basic authentication and privacy using SSL; super-user credentials required for administration
- Linux-based system with 32-bit RISC based SoC, external 128Mb flash and 64Mb SDRAM

The FCS101-AEMS is unobtrusive in installing or uninstalling and acts automatically as soon as a new card is inserted in one of the slots in the shelf. It uses residual power to save the data and shuts down in a controlled manner.

AEMS will auto-detect Ventura line cards inserted into the VS101 chassis and is both backward and forward compatible in supporting different Ventura line cards with different firmware versions.

The AEMS comes in two physical form factors for the Ventura chassis. The FCS183-AEMS, the VS103 variant, follows standard Ventura design, while the FCS101-AEMS, the VS101 variant, is designed to fit on top of the power supply to save valuable space.

FCS101-AEMS as SNMP agent

A single FCS101-AEMS acts as the proxy agent for up to 3 Ventura line cards, 2 power supplies and the fan assembly placed in the VS101 chassis.

Element management

The Ventura AEMS shelf element manager, FCS101-AEMS, provides a comprehensive set of status, control and alarm variables through a Web interface. It also acts as an agent for card upgrades capable of storing multiple images for each card in the VS101 platform and supplying these images under operator control.

LED indicators

SPD	Ethernet activity status
LNK	Ethernet link status
ECG	Device status
PWR	DC power supply status

Physical and environmental

FCS101-AEMS card resides in a single slot of a VS101 Ventura series chassis.

Voltage	5V chassis supply
Power consumption	1W max
Operating temp	0°C/32°F to 50°C/122°F
Storage temp	-40°C/-40°F to 85°C/185°F
Relative humidity	5% to 85%
Compliance	NEBS level 3, UL, CSA, CE, FCC (Part 15 Class A), C-TICK, and RoHS.

Connector types

Ethernet

Connector	RJ45 10/100Mbps
No. of connectors	1
Web browser	Internet Explorer 6.0 or higher Mozilla Firefox 3.0 or higher

RS232 / EIA232

For Linux system configuration

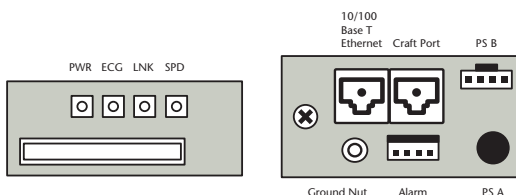
Connector	RJ11
No. of connectors	1
Baud rate	Up to 115200, 1 stop bit, 8 data bits, no parity

Protocols

Telnet	Remote Linux system configuration
FTP	Firmware downloads
HTTP	Web browser access
SNMP	Network management using GETS/SETS. Alarm notifications using traps or informs. Support for SNMP v2c and v3

Ordering options

FCS101-AEMS	Advanced Element Management System card
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Front panel

Rear connector



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