

EVERGREEN™

compunetix
the technology of cooperation

Evergreen MCU series

Cedar

Cypress

Sequoia



EVERGREEN™

The EVERGREEN family of Multipoint Conferencing Units (MCUs) from Compunetix enables multi-site video meetings between industry standard video conferencing terminals, desktop clients and mobile devices. It is the most reliable and innovative MCU on the market.

Optimized Scalability Allows for Flexibility and Growth. Investment Protection. Full Symmetric Endpoint. Connections in any Layout Configuration. Advanced Processing Capability. Redundant and Reliable. ATCA/AMC Industry Standard Compatibility. Easily Integrates with 3rd Party applications via API.

Compunetix has been developing, deploying and supporting feature-rich, easy-to-use reliable videoconferencing systems for over 10 years. The Compunetix Evergreen family of Multipoint Conference Units (MCUs) continues this tradition. The Evergreen MCU bridges together Standard Definition (SD) and High Definition (HD) video conference endpoints from mobile and desktop video applications to room systems and telepresence facilities. In independent testing, the Compunetix MCU demonstrated superior interoperability using a mixture of vendor endpoints both SD and HD.

The EVERGREEN family has been architected to meet the diverse videoconferencing industry needs from enterprise users, Conferencing Service Providers (CSPs), and government agencies. EVERGREEN systems are carrier-class products built to the company's strict military standards yet at an affordable price. Proudly manufactured at our U.S. headquarters, all systems are backed by the company's stability, reputation, and more than 40 years of design and manufacturing experience. The EVERGREEN family currently consists of three models: the Cedar™, Cypress™, and Sequoia™.

Innovative Architecture

The Cedar, Cypress, and Sequoia systems are based on the Advanced Telecommunications Computing Architecture (ATCA)/Advanced Mezzanine Card (AMC) architecture to provide redundant power, control, clock distribution and shelf management. The EVERGREEN architecture extends and enhances these strengths through the innovative ATCA and AMC blades Compunetix has designed for the system. These blades create a high bandwidth, richly interconnected internal switch fabric for investment protection on this platform for years to come. The AMC modular design allows for hardware upgrades to occur as processing technology evolves without "forklift" upgrades. The EVERGREEN products also support ATCA Rear Transition Modules (RTMs) that provide physical interfaces to a variety of different networks. This modular architecture allows the system to support multifunctional capability in the same system without the need for separate gateway, storage, or playback devices.

Optimized Scalability

The EVERGREEN product family is truly a massively scalable platform. There is a single multipurpose ATCA "carrier card" that is used in each card slot location. The functionality of this card is controlled by the software applications activated on it and enhanced by the processing power of the AMC blades inserted in it and the system RTM interfaces. Port capacity can be cost efficiently added to the system by adding the appropriate number of AMC blades. System software optimizes the use of the available processing capacity so that a greater number of ports can be supported when operating at lower resolutions rather than wasting valuable resources like other products on the market. As port capacity needs grow, the ATCA/AMC blades can be migrated to a larger model or multiple systems can be interconnected via our dedicated and unique inter-chassis links to create a single larger system without the headaches of port cascading and management.

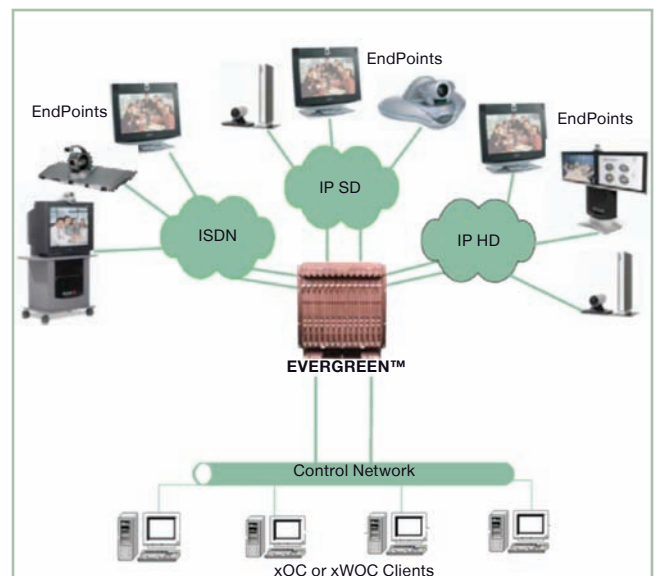


Figure 1. Sample EVERGREEN Network Architecture

Videoconferencing System

Functional Flexibility

Compunetix has a strong history in supplying user interfaces with a great deal of functionality and flexibility. Creation of custom features for our user interfaces is routine. The EVERGREEN family offers two operations clients. The xOC is a dedicated and highly efficient application for full system control. The xWOC provides a web-based control through all popular web browsers for easy access and convenience. The EVERGREEN Application Program Interface (API) is also available for system control from third party applications.

Reliability and Security

The reliability and security aspects of the EVERGREEN family are based on over 20 years experience developing communications systems for various government and DoD agencies. Some of this reliability is inherent in the redundancy offered by the ATCA architecture. Compunetix is extending that reliability with the addition of our Reliable Compute Engine™ (RCE). The RCE provides distributed system level control that can tolerate multiple failures without impacting system performance. Encryption, strong passwords, and 32 levels of protection provide for enhanced security features on EVERGREEN.

Design Features

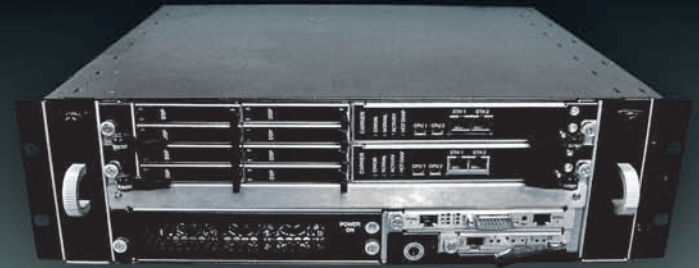
- ATCA/AMC system architecture
- Redundant control interfaces, clock distribution, power supplies and shelf management
- Hot swappable blades and power supplies
- High -speed internal switch fabric
- Incremental port expansion
- Inter-chassis link ports for expansion
- Detailed logging and diagnostics

User Interfaces / Applications

- Platform Manager (xPM) for system configuration
- Operations Client (xOC) for dedicated conference management
- Web Operations client (xWOC) for full web-based operations control
- Reservations/Scheduling assistant
- Billing Application
- API for 3rd party interface development

Conference Features

- Attended or auto dial-out capability
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- Passcode meet-me conferencing
- Secure dial-in conferencing
- Blast dial-out alert conference with security code
- On-hold screens, logos and text overlay
- Conference transfer capability
- Display layouts with up to 20 windows
- 88 Conf. Profiles/Conf. Templates



Cedar Model ¹	HD Ports	SD Ports
Cedar 107	7	15
Cedar 215	15	31



Cypress Model ¹	HD Ports	SD Ports
Cypress 107	7	15
Cypress 215	15	31
Cypress 323	23	45
Cypress 430	30	60
Cypress 537	37	75
Cypress 645	45	90



Sequoia Model ¹	HD Ports	SD Ports
Sequoia 215	15	30
Sequoia 430	30	60
Sequoia 645	45	90
Sequoia 860	60	120
Sequoia 1075	75	150
Sequoia 1290	90	180

NOTE 1: Additional models available for intermediate port capacities

Physical Specifications

Cedar

3U (131.00mm) x 482.60 mm x 444.69 mm
375 watts (AC, nominal)

Cypress

5U (222.00mm) x 482.60 mm x 497.00 mm
1000 watts (DC, nominal)
1110 watts (AC, nominal)

Sequoia

13U (577.85mm) x 482.60 mm x 383.00 mm
2400 watts (DC, nominal)
2800 watts (AC, nominal)

Audio

G.711 a-Law
G.711 μ -Law
G.722
DTMF Tone Detection
Input/output gain control
Mute/unmute

Video

H.239 Dual Video
H.261
H.263
H.264
CIF, 4CIF, 720p HD resolution
4:3 & 16:9 aspect ratios
Frame rates to 30 fps
Video mute/unmute
All ports full transcoding

Network Support

IP H.323
10/100/1000 Ethernet I/F
TCP/IP, RTP, UDP



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