

# EVERGREEN™

**compunetix**  
the technology of cooperation

EVERGREEN MCU series

Cedar

Cypress

Sequoia



Rooted in the rich Compunetix history of developing, deploying and supporting high quality video conferencing, the EVERGREEN family of Multipoint Conferencing Units (MCUs) has been carefully cultivated to fulfill the diverse needs of enterprise users, Conferencing Service Providers (CSPs), and government agencies.

## 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. EVERGREEN products also support ATCA Rear Transition Modules (RTMs) that allow the system to support multifunctional capabilities without the need for separate gateway, storage, or playback devices.

## Optimized Scalability

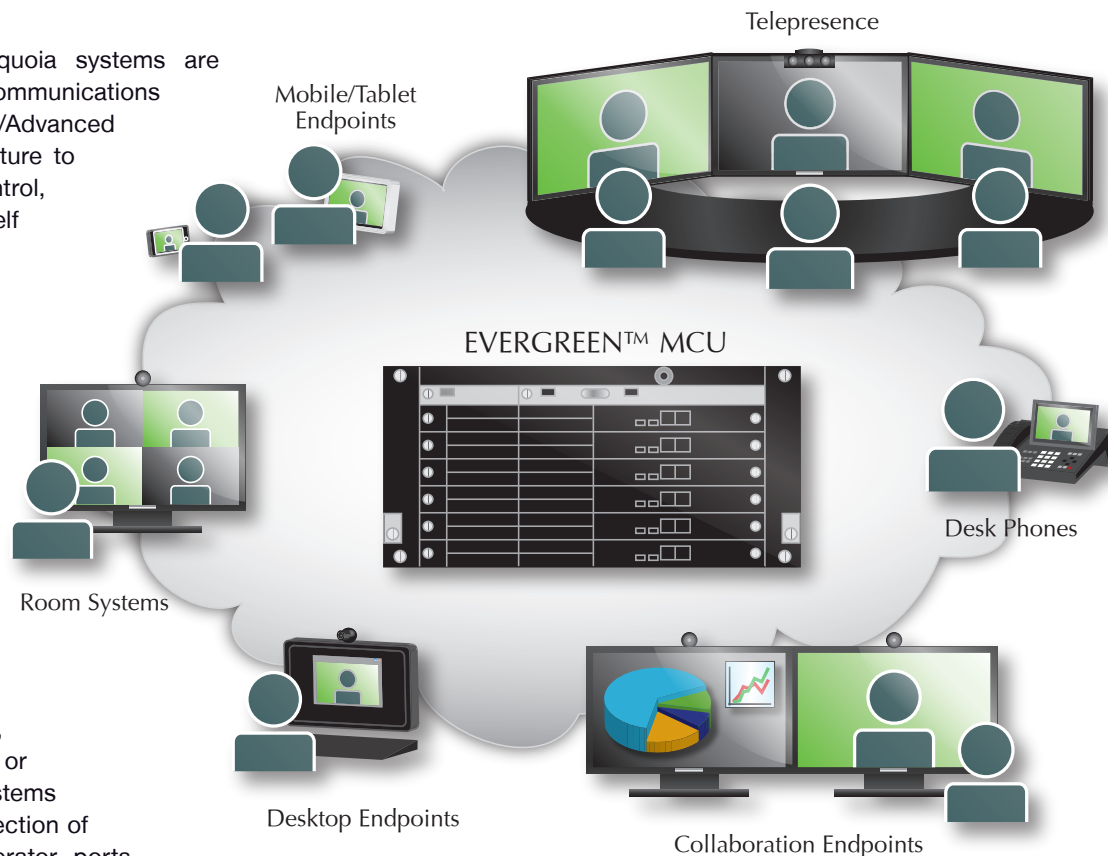
As your needs increase, you can easily and cost-effectively grow port capacity by adding blades to your system, migrating to a larger chassis, or linking multiple EVERGREEN systems to create a single, immense collection of non-cascading ports. To an operator, ports from linked systems will appear and function the same as ports from a single platform.

## Reliability and Security

The reliability of each EVERGREEN system is enhanced by the incorporation of the Compunetix Reliable Compute Engine™ (RCE). The RCE provides distributed system level control designed to safeguard system performance while encryption, strong passwords, and 32 levels of protection provide enhanced security.

## Endpoint Interconnectivity

Each EVERGREEN MCU can seamlessly connect Standard Definition (SD) and High Definition (HD) video conference endpoints from mobile and desktop video applications, room systems, telepresence facilities and more. In independent testing, the Compunetix MCU demonstrated superior interoperability using a mixture of both SD and HD vendor endpoints.



# The EVERGREEN™ Family

EVERGREEN systems are carrier-class products built to strict military standards. Proudly manufactured at our U.S. headquarters, all systems are backed by the stability, reputation, and more than 40 years of Compunetix design and manufacturing experience.

The EVERGREEN family currently consists of three models: the Cedar™, Cypress™, and Sequoia™.

## EVERGREEN Cedar™

Tailored to meet the needs of the enterprise market, the EVERGREEN Cedar facilitates reliable, feature-rich video conferencing for small businesses looking for an innovative in-house solution. With the Cedar system, you can finally experience the cost-savings and added security that comes with owning your own equipment.

## EVERGREEN Cypress™

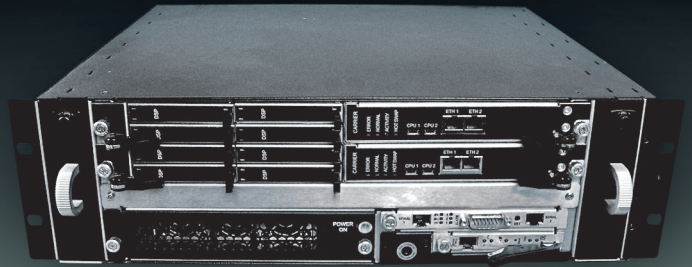
With its modest footprint, optional full redundancy, and expanded growth capacity, the EVERGREEN Cypress is the ideal video conferencing platform for medium-sized businesses and small service providers. Featuring multi-tenant and multiple network support, the Cypress system enables you to partition resources among departments or customers with ease.

## EVERGREEN Sequoia™

The largest member of the EVERGREEN family, the Sequoia, is a massively scalable video conferencing platform crafted to fulfill the ever-growing needs of large businesses and service providers. Incorporating full redundancy into its carrier-class design, the EVERGREEN Sequoia can seamlessly support both attended and unattended video conferencing. With the greatest growth capacity of the EVERGREEN line, multiple Sequoia systems can scale to thousands of video ports.

## 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
- Multi-tenant capabilities to enable “Cloud” conferencing services



Cedar Model <sup>1,2</sup>	HD Ports	SD Ports
Cedar 121H	21	42
Cedar 243H	43	86



Cypress Model <sup>1,2</sup>	HD Ports	SD Ports
Cypress 121H	21	42
Cypress 243H	43	86
Cypress 365H	65	130
Cypress 491H	91	182
Cypress 5113H	113	226
Cypress 6140H	140	280



Sequoia Model <sup>1,2</sup>	HD Ports	SD Ports
Sequoia 243H	43	86
Sequoia 491H	91	182
Sequoia 6140H	140	280
Sequoia 8183H	183	367
Sequoia 10232H	232	464
Sequoia 12275H	275	551
Sequoia 14324H	324	649

NOTE 1: Additional models available for intermediate port capacities  
 NOTE 2: SD 4CIF listed

## Physical Specifications

### Cedar

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

### Cypress

5U (222.00mm) x 482.60 mm x 497.00 mm  
1200 watts (DC, nominal)  
1320 watts (AC, nominal)

### Sequoia

13U (571.60mm) x 482.60 mm x 506.90 mm  
2800 watts (DC, nominal)  
3000 watts (AC, nominal)

## Audio

G.711 a-Law  
G.711  $\mu$ -Law  
G.722  
G.722.1  
G.722.1c  
DTMF Tone Detection  
Input/output gain control  
Mute/unmute

## Video

H.239 Dual Video  
H.261  
H.263  
H.263+  
H.264  
CIF, 4CIF, 720p HD resolution  
4:3 and 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

## Conference Features

Attended or automatic dial-out and dial-in capability  
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  
Lecture mode  
Bridge partitioning/Group access  
Display layouts with up to 20 windows  
88 Conf. Profiles/Conf. Templates

## 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  
Easy Web Operations Client (eWOC) for simplified web-based control  
API for 3rd party interface development

## Mobile & Desktop Applications

EVERGREEN™ Companion Desktop Client  
Video Mobile Client for iOS and Android  
Billing application

For more information, please contact:

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