

# AVCIT E-CP4C IP Based Central Controller



AVCIT IP based Central Controller, optional hardware of IP based System, if any control over RS232/485/IR/IO/IP is required.

E-CP4C will implement the built-in user program as soon as receiving control instructions from the control tablet, and send UDP control code to certain transceiver node, which has an unique IP for identification; Then the transceiver node will decode and transfer UDP code into RS232/IR/IO, which can be received and read by Pro AV Terminal devices.

All the codes done by Class C language is stored at E-CP4C central controller, System can be equipped with multiple E-CP4C central controller, Main E-CP4C central controller will sync all data to other E-CP4C central controller, any other E-CP4C central controller will seamless succeed the role of main E-CP4C central controller, if any E-CP4C central controller paused by unexpected situation, human even can not detect the switching of E-CP4C central controller, ideal for high reliability scenario.

## Features of E-CP4C

- ✓ Real-time operating status will be displayed on monitor, make debugging process simple, low-costly;
- ✓ Programming by Class C language, flexible to compose a variety of communication protocols to adapt to a variety of control equipment;
- ✓ Two-way control link, extension by varieties of transceiver node, Pro AV Terminal devices will be controlled and at the same time the real-time feedback will be read and displayed on control tablet, Interactive fault detection mechanism, i.e. Failure alarming of transceiver node, can be triggered through programming;
- ✓ With E-CP4C Central Controller, the status of Pro AV Terminal devices can be acquired and display on control tablet and software, such as the projector's bulb duration, external equipment's operation logs, Greatly facilitated the maintenance of the system;
- ✓ Benefit from E-CP4C Central Controller's powerful string processing capacity, varieties of sensors can be accessed, and get a more intelligent control experience;
- ✓ E-CP4C Central Controller has Powerful logical computing ability, large-scale and comprehensive control room system can be set up, for militarily, government, defense, energy, traffic application and so on;
- ✓ Class C language programming, Based on the whole string processing, with a strong cloud storage and cloud computing capabilities, all the device code or infrared code, once implemented by any programmer, others can directly recall from cloud storage;
- ✓ Class C language programming is with very good portability, greatly facilitate the implementation, with enhanced system reliability, lower probability of bug;
- ✓ Cloud storage feature allows programmer to save code into AVCIT cloud, such as IR files and matrix files, up to 10 latest complied code can be saved and recalled from the cloud anytime, in case of system recovery is required;
- ✓ Powerful 2nd-programming capabilities, current scenario can be saved or recalled, even part of the

- ✓ implementation results can be modified
- ✓ Rugged brushed panel made of magnesium alloy, tightly sealed metal chassis, to ensure the safety of internal hardware
- ✓ Transmission RS232/485 + IO + IR + Internet signal over twisted pair cable only, cabling and installation is simple and low cost;
- ✓ 1U rack installation, only one twisted pair cable connected to GB switch, one power supply cable;
- ✓ 8 input and output I/O port, give access to variety of sensor and detectors, what's more, all transceiver node has IO/RS23/IR ports, as an extension control ports of E-CP4C central controller, saying unlimited scalability.

### Technical Specification

| Technical Parameters           |  |
|--------------------------------|--|
| CPU                            | 32bits,1Ghz  |
| RAM                            | 4GB DDR2   |
| RS232 port                     | 1  |
| Visualized Debugging port:     | HDMI port  |
| IR learning Port               | Yes  |
| IO port                        | 8 I/O, support digital input, with circuit protection  |
| Power supply                   | 110-220V AC  |
| Storage Temp                   | 0-55°C   |
| Working Temp                   | 0-55°C   |
| Working Humidity               | 20-90%   |
| Requirement of Ethernet Switch |  |
| Switching Capacity             | ≥ 598Gbps(more than 40 node)   |
| Forwarding Performance         | ≥ 222Mpps(more than 40 node)   |
| POE Feature                    | Required(or choose 3 <sup>rd</sup> party POE injector)   |
| Recommend Model                | HUAWEI S5720S-28P-SI-AC, S5700-48TP-PWR-SI, S5720-56C-PWR-HI, and max 3-4pcs S5720-56C-PWR-HI to stack, for project that need more than 192 node, please use Core Switch, i.e. HUAWEI S6720S-26Q-EI-24S-AC or S6720-32C-SI-AC                |
| Physical Parameters            |  |
| Dimension                      | <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>Chassis of E-CP4C</p> </div> <div style="flex: 1; text-align: center;"> </div> <div style="flex: 1; text-align: right;"> <p>480.5x439.6x44.4mm</p> </div> </div> |
| Gross Weight                   | 4.2kg  |