MMCU-300S

Main Control Unit

■ **Description**

○ Main control unit is a card type control device for large capacity equipment.

■ **Features**

○ Connected with various devices it controls the operating program or key pad.

○ It is composed of main self which CPU and power supply are allocated. Each card unit works as communication control (RS-232C/ RS-422), input/output, volume up/down and IR control.

○ Maximum 11 cards can be installed in main shelf and it can be composed by expanding shelves.

○ Major controlled device and remote controlled status can be viewed with RUN / TX / RX LED and each inserted card from the LED.

○ Cards from main shelf can be replaced any moment if necessary, so it is possible to provide fast after sales service.

■ **Panel Drawing**

■ **Specifications**

○ Main Shelf [MMCU-301MAIN]
  - Board rear insert type
  - Number of card : max 11EA Cards
  - Type : 19" Rack type
  - Dimensions : 483(W) * 133.5(H) * 300(D) mm

Equipment Overview & Function

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■ Specifications

1) Power Supply
- Supply power to each card which is inserted into MCU(301MAIN)
- Input power : AC 85V ~ 246V free volt
- Output power : DC +12V, DC -12V

2) CPU Card

CPU card takes data from MCU-301Main and processes to manage MCU-300S comprehensively.
- CPU : 80C52
- Memory : 32K
- Serial port : RS-232/422   2 Port (Main and SUB)

○ Come Card [MMCU-302COM]

- Interface device between main unit and external communication devices which takes data from CPU card and transmits to the specific port..
- Serial port : RS 232C 3 port (RS-422: need to be adjusted) D-SUB connector with 3 each card is available at rear panel
            (extension slot available)
- CPU : 80C52
- Memory : 32K
- additional card available for extension

○ Input Card [MMCU-303IN]

Transmission card which takes specific data of contact, sensor, power and sends to CPU card
- number of contact point : 16Port
- additional card available for extension
- CPU : 89C52

○ Output Card [MMCU-304OUT]

- Transmission card which takes data from CPU and sends to specific external devices via contact point
- number of contact point : 9Port
- additional card available for extension
- output power : DC 24V 1A

○ IR Card [MMCU-305IR]

- control card for devices which are operated by remote controller such as VTR, DECK, DVD
- IR Port : 4 Port (IR and Serial Control)
- additional card available for extension
- CPU : 80C52

○ Volume Card [MMCU-306VR]

- Volume control card adjusts the level of volume for remote controlled devices by connecting amplifier.
- Controls the level of volume via touch screen(operating software) or key pad by taking data from main control CPU.
- number of volume control port : 3port (M : 1ch, ST : 2ch)
- CPU : 89C52
- additional card available for extension of control channel

■ Specifications

○ LAN Card [MMCU-307LAN]

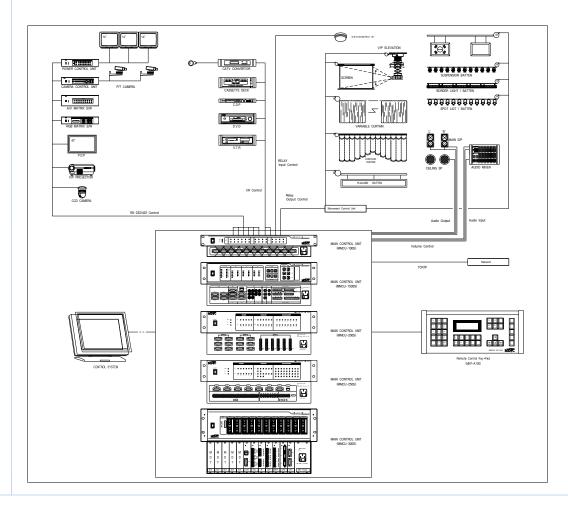- LAN card enables to manage MCU-300S generally. It receives card data an processes..
- CPU: 89C52
- Memory : 32K
- Serial Port : RS-232 (or RS-422 Setting) 1 Port
- LAN Port : 1Port
- Protocol : TCP/UDP/IP/ICMP/ARP/TELNET/DHCP
- LAN : 10Base-T Ethernet

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