

INTEGRATED CONTROL SYSTEM HOST

MP-CTL8U



Professional control platform for AV, automation and intelligent system management

Designed for command centers, automated offices, multimedia rooms, smart homes and large-scale AV control applications.

KEY FEATURES

- ARM Cortex-A53 architecture, 1.8 GHz; 2 GB RAM; 8 GB ROM
- 8 programmable two-way serial ports for RS-232 / RS-422 / RS-485 control
- 8 IR outputs / one-way serial ports for AV and appliance control
- 8 isolated low-voltage relay outputs for lights, doors and curtains
- 8 digital I/O inputs for sensor and dry-contact signals
- Gigabit Ethernet with HTTP / TCP/IP / UDP / WebSocket protocols
- IR learning, web server, online firmware upgrade and password protection
- Built-in sync clock, standard 1U rack mounting and factory reset support

TECHNICAL SPECIFICATIONS

Parameter	Specification
CPU	ARM Cortex-A53, 1.8 GHz
Operating System	Android 9
Memory	2 GB DDR4 RAM
Flash Memory	8 GB EMMC Flash
Ethernet	10 / 100 / 1000M Ethernet RJ45
Power Supply	AC 110–220 V, 50/60 Hz
Power Consumption	55 W (48 W for external power supplies via H-NET)
Dimensions	440 × 200 × 44 mm (W × D × H)
Weight	2.1 kg
Installation	Standard 19-inch cabinet with mounting ears or flat installation
Operating Temperature	0°C to 40°C / 32°F to 104°F

I/O & CONNECTIVITY

Interface	Details
COM1/2/3/4	4 × 9-pin Phoenix; RS-232 / RS-232 + hardware flow / RS-485 / RS-422; 2400–115200 bps
COM5/6/7/8	4 × 3-pin Phoenix; RS-232; 2400–115200 bps
IR-SERIAL OUTPUT	8 outputs; IR transmit or one-way RS-232 (0–5 V level); IR wavelength 20–60 kHz
RELAY OUTPUT	8 isolated, normally-open outputs; up to 30 VDC/2 A or 125 VAC/1 A
DIGITAL I/O	8-channel GPIO dry-contact inputs; 0–24 V; low-level sensing
USB / COMPUTER	1 × USB Type-A (reserved); 1 × USB Type-B (reserved for test/debugging)

APPLICATIONS

Command & control centers • Emergency alarming • C4ISR • Government administration • Smart buildings • Multimedia conference rooms • Multifunctional halls • Training centers • Showrooms • Broadcasting studios • Industrial automation

Source: MP-CTL8U User Manual, VER 1.0