Saloon Control Unit

Saloon control unit is the car-level controller for each carriage in the PA / PIS system. It is the core device for controlling the broadcasting and information display. It accomplishes the networking between the train-level network and the car-level network of the system, as well as functions such as broadcasting control, volume control, and information display within its own carriage.

- It adopts a modular design, and all modular devices are installed in a standard 3U industrial chassis.
- It uses the front panel wiring method, which is convenient for installation and maintenance.
- Include power modules, power amplifiers, switch, audio interface modules, etc., and can be freely combined.
- Two power modules and two power amplifier modules can be set for redundancy.

Technical Parameters

Items	Specification
Audio Sampling Rate	44.1kHz, 16bit, monophonic
Audio Input	0dBm

Frequency Response	+1dB/-2Db (100Hz ~ 12kHz)
Harmonic Distortion	≤ 1% (100Hz ~ 12kHz)
SNR	≥ 70dB
Power Output	DC24V
Ethernet Interface	10M/100M/1000M auto-negotiation Ethernet interface & 10M/100M auto-negotiation Ethernet interface
Power Supply	DC24V (-30%~+25%) or DC72V (-30%~+25%) or DC110V (-30%~+25%)
Power	100W
Product Weight	≤ 5kg
Operating Conditions	-25 °C to 70 °C, humidity less than 95% (non-condensing)

* The device dimensions can be customized, and the actual module configuration scheme shall be determined according to the structure.