Indoo Smart Classroom IoT Configuration List (WiFi)

Module Standard/Optional Configuration: (Example: ● Standard ○ Optional)

Product Name	Quantity	Unit	Brand	Example	Specifications & Functional Parameters	Remarks
Indoo LCD Control Panel	1	unit	Indoo	●	Touch control panel for each classroom; displays status of classroom equipment, temperature, humidity, air quality, power switch, etc.; supports one-click control	One per room
Serial Port Control / Power Meter Module	1	pc	Indoo	●	Power detection for display/projector; detects voltage and current, calculates power consumption; RS232 serial port for device on/off control	One module per device
Air Conditioner Power Meter Module	1	pc	Indoo	●	Detects voltage and current of air conditioner; calculates power consumption	One module per device
PM2.5 Detection Module	1	pc	Indoo	●	Detects PM2.5 concentration in the air	One per room
Temperature & Humidity Module	1	pc	Indoo	●	Detects temperature and humidity in the classroom	One per room
Infrared Remote Control Module	1	pc	Indoo	●	Controls air conditioner switch and settings via infrared; supports remote control of modes such as on/off, cooling/heating, temperature settings	One module per device
Electric Curtain Motor	/	set	Indoo	●	Motor to drive electric curtains	Configured as needed (fabric not included)
Curtain Rail	/	/		●	Custom aluminum curtain rails based on window size	

CRT Module	/	/		●	Works with curtain motor; controls curtain motor via 2.4G Wi-Fi network	
Lighting Control Module	1	pc	Indoo	●	Key control for three-channel lighting; supports wireless IoT control via mobile/tablet/computer; remotely turns lights on/off and checks status	3 switches per room, based on lighting layout
AP (Access Point)	1	pc	Indoo	●	Connects all modules to the network	One per room
WeChat Mini Program	1	set	Indoo	●	Mobile view of classroom device status, temperature, humidity, PM2.5, air conditioner, lighting, and curtain states; control functions; data graphs available by month/day/hour	One set per school
Windows-Based Big Data Management Platform	1	set	Indoo	●	IoT platform for Windows; displays all classroom data, environmental and device control; charts of temperature, humidity, PM2.5; statistics on power usage, device usage & online rates	One set per school
AI Voice Module	1	pc	Indoo	○	Fully intelligent AI management system; voice-activated; supports intelligent scene switching	One per room

Note: Modules can be increased based on school-specific needs.