Specification			NMP 210-G-K-CP	NMP 220-R-K-CP
Networked Media Processor	Industrial-grade embedded motherboard	High-speed 32-bit CPU; Embedded operating system;	✓	✓
	LAN switch	4 * 10M / 100M RJ45 network switch ports	✓	✓
	Audio matrix module	2*3.5mm line in; 1*3.5mm line out	✓	✓
	Microphone	1*6.35mm wired MIC in; 1*2.4G+UHF wireless MIC in; 1*3.5mm MIC mixed out	✓	✓
	HDMI matrix module	3*3 HDMI 2.0 Matrix Module, support 4K@60Hz, support HDCP 2.2 and HDCP 1.x	✓	✓
	Audio format	MP3, WAV, FLAC, Ogg, Opus and other mainstream audio formats	✓	✕
	Video format	MKV, RMVB, RM, MP3, MOV, AVI, FLV, WMV and other mainstream formats	✓	✕
	Communication Interface	1*RS232; 2*USB *2; 1*Phoenix 4-Pin for control panel 1*USB-HOST & 2*USB-DEVICE (Route touch signals from different HDMI inputs to a touch display) 1 * infrared remote control ; 1 * IR learner	✓	✓
	Power amplifier	2*(40W+40W)	✓	✓
	Access control	Electronic lock control	✓	✓
	Power control	1* power out; 1* single pole double throw（SPDT） switch 1* power in;1* power out for projection screen; 1* Power fuse（~220V/10A）	✓	✓
	Q-NEX Console Software	Centralized device control and management	✓	✓
		Support IC card management	✓	✓
		Cloud storage management Digital audio broadcasting Streaming media broadcasting TXT message announcement	✓	✕
Control Panel	IC Card swiping module		✓	
	Power Control: NMP/ display device/ external device power on/off		✓	
	Video Control:HDMI input switch for the main display		✓	
	Audio Control: MIC/Speaker volume adjust		✓	
	Click to lock panel		✓	
Wireless MIC	Frequency Range	650~675MHz	✓	
	Maximum channel	Up to 64	✓	
	Output Power	>=3dBm	✓	
	Side wave suppression	> 50dBc	✓	
	Bandwidth	25 MHz	✓	
	Maximum input level	At maximum gain> = 300M vRms	✓	

Q.nex

[Ca212EN]-Q NEX-NMP 210-G-CP/220-R-CP-Brochure

Q.nex

Networked Media Processor

Q-NEX NMP is short for Networked Media Processor, and it is mainly designed for assisting school's IT admin to well manage various electronic facilities in a school, and freeing teachers from complicated operation of a multimedia classroom

AV Switcher
1. HDMI Matrix Switcher
2. Audio Matrix Switcher
3. **Touch Signal Switcher: To route touch signals from different HDMI inputs to one touch display with Touch USB port**

Wireless MIC Receiving Module

Management System:
- Q-NEX Console (web-based platform) for overall control
- Streaming Service System (based on Q-NEX media server) for AV distribution and storage service
- Mobile APP for device control, compatible with Android & iOS

Networked AV Distribution Module
1. Audio broadcasting, for scheduled school bell and the like
2. Streaming media broadcasting
3. TXT message announcement
4. LAN switch

Device Control Module
1. RS-232 communication port
2. IR learning module for air conditioner control and the like
3. Power control module for lights, projector, display etc.
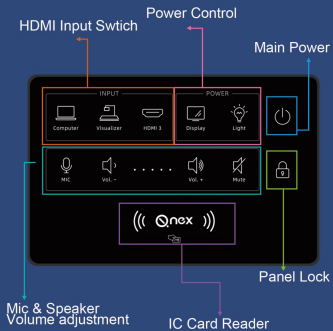4. Q-NEX control panel connection port

Power Amplifier

Access Control Module
1. Electronic lock control
2. Authorized access to control panel

Control Panel

- HDMI Input Swtich
- Power Control
- Main Power
- Mic & Speaker Volume adjustment
- IC Card Reader
- Panel Lock

Wireless MIC
✓ Built-in page turner (PPT) and IR pointer
✓ With volume adjustment button
✓ OLED displays working status
✓ Automatic frequency matching NMP

Application Diagram