

———Datasheet———





Features	Product	Model	Components
Device control + AV broadcast + Storage	Networked Media Processor (General)	NMP 211-G-L2U	NMP211*1
			Touch Panel CPL20*1
			Wireless Microphone *2
	Media Server	MS	16GB/4TB SATA*4/ DVDRW Streaming Service System
	Control Box	CBX100	Connection up to 4 pcs for each NMP







Features ·

Device Control

- To control devices through the Touch Panel.
- To control through web-based platform Q-NEX Console from anywhere with an Internet access.

Access Control

- · With a built-in electronic lock control module for door security, it allows authorized access by swiping an IC card.
- IC card could also be used for activating the Touch Panel, so that students without permission can't mess up with the facilities.

AV Matrix Switch

• To route audio and video signals from multiple input sources, to one or more display devices, like projector, TV, interactive flat panel.

· Networked AV Decoding

- · NMP can work as a LAN switch.
- By setting NMP and a **Q-NEX Media Server** in the same LAN, NMP can decode AV contents/live streaming from the media server, and play in the classroom media devices instantly or on schedule.

Push Notification

To display daily messages, emergency alerts, announcements etc., delivered by admin in the classroom.



Specifications -

Specification		
Size(mm)L*W*H	440*292*50mm	
Weight	3.9Kg	
Standard 1U rack-mount design	Suitable for installation in various types of cabinets	
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 mixed out;	
Microphone	1*6.35mm wired MIC in; 2*UHF wireless MIC in; 1*3.5mm MIC out;	
HDMI matrix module (Input * Output)	3*3 HDMI 2.0 Matrix Module, support 4K@60Hz, support HDCP 2.2 and HDCP 1.x	
Communication interface	1*RS232; 2*USB 1*USB-DEVICE In 2*USB-HOST Out 1*Phoenix 4-Pin for control panel 1 * IR OUT, for remote controlling IR devices like air conditioner, TV, projector etc. 1 * IR IN, for learning IR codes and store on the Cloud-based platform	
Power amplifier	2*(40W+40W), support to connect at least 2 pairs of passive speakers	
Access control	+: Power output, Voltage: 12V, Current: 800mA -: Power ground (negative level) I: Door switch interface D: Door lock status interface C: Relay common end, Load capacity: DC 3A at 30V O: Relay normally open, Load capacity: DC 3A at 30V	
Power control	1* power supply for NMP, support wide voltage (110-240ACV) 1* single pole double throw (SPDT) switch 1* power output for electric projection screen or electric curtain 1* power output for display or others 1* Power fuse	
Antenna Ports	1* antenna port for wireless microphone 2* antenna ports for Wi-Fi module	
Remote control & centralized	Centralized control and management of classroom devices such as PCs, projectors, A/C, power supplies of external devices through the Internet	
management	Remote statistics on the usage and status of classroom devices, such as: equipment usage logs, energy consumption, etc.	
Push Notification	Display daily messages, important alerts and announcements delivered by IT admin or teachers in text format in the classroom displays instantly or on schedule.	



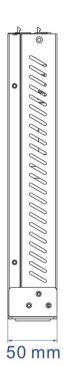


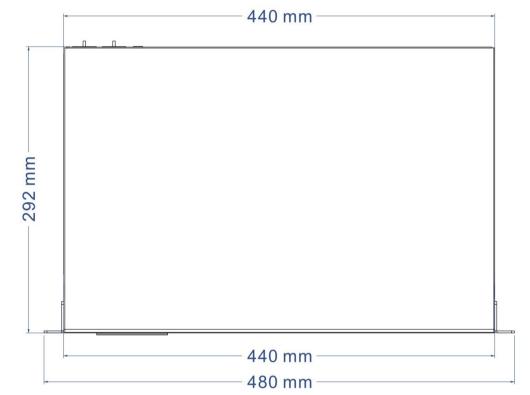
Specification Specification		
Wireless module	RF Transceiver	"Wi-Fi friendly" 2.4 GHz spread spectrum 2-way RF (2400 to 2483 MHz)
	RF Transmitting Power	13.5dBm
	Range	< 30 m, support to connect up to 4 units of control box for extended RS232/IR/Relay control
Connection	Control Box (CBX)	support RS232/IR/Relay control
	Power supply	5-12V/500mA
	Frequency bandwidth	12MHz
	Frequency response	30hz-15KHZ
	Frequency range	640-690MHz
	Maximum channels	48
Wireless MIC Receiver	Receiving sensitivity	<=-105dBm
	SNR	>= 80dB
	Audio output level value	350 mV
	Distortion (THD+N)	<0.5%
	Latency	<3ms
	Operating temperature	-25C°-60C°
Networked AV Decoder	To decode networked AV media content	Support streaming protocols such as HLS, RTSP, RTMP, RTP etc. And with high-efficiency audio and video decoding function, it decodes AV media content (up to 1080P@60 fps) distributed from media server that is with Q-NEX streaming service system built-in, and plays instantly or on schedule in the classroom media devices.
	To decode live AV streaming	Support streaming protocols such as HLS, RTSP, RTMP, RTP etc., and can play high-definition live streaming content ((up to 1080P@60 fps) from IP camera and the like, through media server that is with Q-NEX streaming service system built-in, to the classroom media devices instantly.

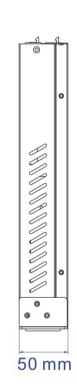


Dimensions















Features (CPL20) -

Features Features		
1	Panel Control	Swipe IC card to unlock; click to lock panel
1		Password to lock panel
2	Audio Control	Switch audio sources to HDMI out A / Audio 1/2
3	Video Control	Matrix switch video input sources to THREE displays
4	Volume Adjustment	Adjust the volume/treble/bass of speaker and microphone
5	Power Control	The displays and external devices power on/off
6	Curtain Control	Screen up/down/stop
7	A/C Control	Control air-con power, temperature, modes
8	Remote Control	Send commands for IR devices control
9	RS232 control	To control devices through RS232, E.g. projector / IFP / IQVideo
10	CBX control	To control devices that attach to control box
11	Push Notification OFF	Exit non-mandatory Push Notification
12	Divisable Room	Turn on/off the divisable room mode, set the divisable room devices
13	CBX Control	Control NMP-connected CBX for extended device control
14	Lecture Capture Control	Control lecture capture system connected to NMP(Networked Media Processor)



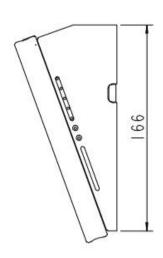


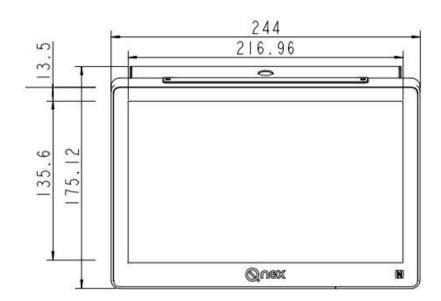
Specifications —

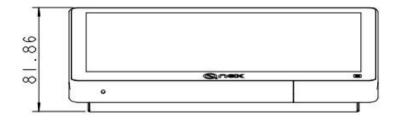
Specification		
СРИ	Quad-cord, Main frequency 1.6GHz	
GPU	Quad-cord	
RAM	2G	
ROM	16G	
O.S.	Android 10	
Screen	10-inch 1280*800 IPS	
Touch	Capacitive screen with tempered glass, 10-point touch	
	Optical bonding	
	RJ45*1 (PoE supported)	
	USB2.0 *3	
I/O Port	Type-C OTG *1	
	Audio (3.5mm) *1	
	DC (12V) *1	
Physical button	Power*1	
NFC	Supported	
Dimension	244*171.5*28mm(L*H*W)	
Working temperature	-20°C to 70°C	
Working humidity	<85%	
Installation	Desktop stand	



Dimensions -







04 Wireless Microphone WX-U32





Features

- Support wireless transmission up to 40 meters.
- UHF frequency band, anti-interference.
- LCD screen to check the signal strength, battery power, connected channel and other information.
- Support up to 24 channels connection without interference
- One channel supports simultaneous connection of two wireless microphones-one handheld microphone, one lapel microphone.
- Automatic frequency matching when powers on, simple operation.
- Lapel mic supports point-to-multipoint dynamic access, so that each teacher can own one lapel mic to pair with any NMP in any classroom, convenient for private use and good for personal hygiene.

04 Wireless Microphone WX-U32



Specifications ———————————

Parameter	Handheld Microphone
Receiving sensitivity	>=85dBm
Receiver working current	5V/180mA
Frequency range	640MHz ~690MHz
Sensitivity	51dB±3dB(0dB=1V/Pa 1 KHz)
Frequency response	50Hz~15KHZ
Microphone type	Dynamic cardioid microphone
SNR	>=65dB
Transmit power	>20dBm
Distortion	<0.5%
Effective distance	<40m
Latency	<5ms
Operating temperature	-25C°-60C°
Power supply	2*AA batteries
Microphone working current	100mA@3V
Battery lifetime	12 Hours

04 Wireless Microphone WX-U32



Specifications ———————————

Parameter	Lapel microphone
Receiving sensitivity	>=85dBm
Receiver working current	5V/180mA
Frequency range	640MHz ~690MHz
Sensitivity	51dB±3dB(0dB=1V/Pa 1 KHz)
Frequency response	50hz~15KHZ
Microphone type	Condenser microphone
SNR	>=105dB
Transmit power	16~25dBm
Distortion	<0.5%
Effective distance	<40m
Latency	<5ms
Operating temperature	-25C°-60C°
Power supply	2*AA batteries
Microphone working current	200mA@3V
Battery lifetime	5 Hours

05 Control Box (Optional)







Features (CBX100) -

· Wireless Connection

- Connect to Q-NEX NMP through 2.4GHz wirless transmission.
- Convenient installation without wiring or change of existing electric wires in the room.

Unified Control

- · Remote control devices anytime and anywhere on unified Q-NEX Console through Internet.
- Support device control by Touch Panel (CPL20), mobile APP or Web browser on PC instantly or on shcedule.

Multiple Control Interface

- · Wireless control of various devices with RS232, IR and Relay interfaces supported.
- Each CBX can apply one of the controls of RS232, IR and Relay.

Device Control Extension for Q-NEX NMP

- Extended control interfaces for NMP, to allow more devices being controlled by NMP.
- Each NMP can get 4 more CBXs connected.

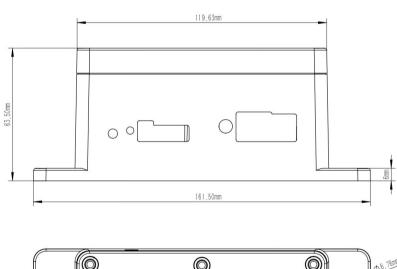
05 Control Box (Optional)

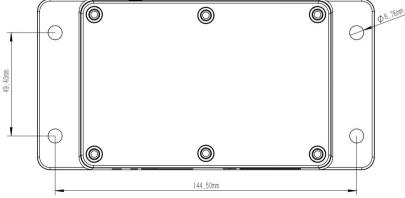


Specification ·

Specification		
AC power supply	90-300VAC	
Input power consumption	<3W	
Working environment	-20°C~85°C	
WiFi	IEEE 802.11 b/g/n 1T1T 2.4GHz	
Relay interface	SPDT	
Maximum load (resistance)	250VAC, 10A	
Maximum switching power	2500VA	
Communication interface	1*RS232, 1*IR remote control	

Dimension





06 Media Server (Optional)



*Media Server is a recommended option that works with NMP 211-G for AV Distribution and Storage.



Based on a scalable network framework, Q-NEX Campus solution allows the Media Server to be deployed over private network OR public network for AV distribution.

Recommended Minimum Specifications

Storage type	ECC
Maximum extended memory	64G
RAM	16G
HDD Storage	4T*4 SATA
CPU	4-core 8-thread CPU
System	Windows Server OS



Get in touch with the simple but functional system:

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