



32" Outdoor Single-sided PIDS Portrait, Flat



Model: NIASM-320PC-124-LAS, Portrait, Single-sided

- ✓ Tamper-proof, anti-reflection, tempered glass over 32" screen
- ✓ Daylight readable, full high definition 1920 x 1080 pixels
- ✓ UL48 LCD outdoor signs certified, UL879 sign controller certified
- ✓ 3M IR film to block sunlight solar energy
- ✓ Hardware health monitoring maintenance VMS controller
- ✓ Powdered steel enclosure structure – Silver color
- ✓ Option: outdoor interactive zoom touch glass

Screen

Parameter	Specification
Video Orientation	Portrait
Screen Dimensions	392.85mm(width) x698.4mm(height) (27.5inches x 15.5inches)
Enclosure Dimensions	570mm(width) x 880mm(height) x 196mm(depth) (22.4inches x 34.6 inches x 7.72inches)
Resolution	1920 x 1080 pixels
Color	1.07 billion colors (10-bit)
Dimming	50-100% automatic dimming
Calibrated Intensity	1000 Cd/m ²
Color Temperature Modes	Warm / Medium / Cool
Refresh Rate	60 Hz
Contrast Ratio	2,000:1 (Typical); 10,000:1 (Dynamic)
Viewing Angle	178 degrees (side/side) 178 degrees (up/down)
Burn Time (one static image)	30 min

Power, Computer & Electronics

Parameter	Specification	
Power Consumption	320 W	
Embedded computer (Provided by ETA)	CPU	
	RAM	
	Storage	
	Dimensions (W x H x D)	150mm x 150mm x 50mm; (5.9inches x 5.9inches x 2.0inches)
	OS	Windows 10
Inputs / Outputs	HDMI DVI (720p/1080i/1080p) LAN (RJ45, Cat 6) RS-232C	
On Screen Display (OSD)	English (default),	
Interactive Outdoor PCAP Touch Glass (Optional)	a) Projected Capacitive (PCAP), 2-point zoom -touch b) Works with bare fingers and gloved fingers c) High positional accuracy (2.5mm typical) d) 92% - 100% light transmission through PCAP Less than 10 milli seconds response time	

System Level Design & Durability

Parameter	Specification
Rated Operating Conditions	Temperature: -30°C to +45°C Humidity: 20% to 80%
Heating, Ventilation & Air Circulation (HVAC)	Automated system for heating & cooling with active air inflow & exhaust [<i>patent pending</i>]
External Housing	Fully-sealed, weather-proof enclosure Powder coated surface treatment Available finishing materials: Stainless steel, Aluminum, Architectural glass
Glass	Anti-vandal, tempered glass
Certification	FCC, CSA, Components UL
Warranty	36 Months
Mean Time Between Failure	50,000 hours
Health Monitoring System [Model: NRMCB-300] Electric Sign Hardware Controller Module	Health Monitoring capabilities: <ul style="list-style-type: none"> - Monitor internet connectivity - Environmental control via IoT sensors <ul style="list-style-type: none"> • (2) Temperature sensors • (1) Ambience sensor • (1) Moisture sensor • (1) Pixel moving sensor to detect screen is working or not • (1) Door sensor for enhanced security and safety - Sequential power booting program <ul style="list-style-type: none"> • Remote computer power reset • Remote LCD power reset • Remote HVAC power reset

4G/LTE Modem/Router Specification

Features

- 4 x 1000 Mbit LAN ports, 1 x WAN/LAN port
- The 4G LTE Router of inter-operating with the AT&T mobile network.
- The 4G/LTE router support the standard protocols - NAT, VLAN and IPV6.
- 4G/LTE dome antenna on the top side as a standard.

LTE Module	
LTE Release 9, LTE FDD Category 4	850MHz(Band5), 2.6GHz(Band7) Dual Band GCT GDM7243S Engine
LTE Release 9, LTE FDD Category 4	850MHz(Band5), 2.6GHz(Band7) Dual Band GCT GDM7243S Engine
GPS	
Standalone GPS	UBLOX, Sensitivity -162dBm
CPU Part	
CPU	MIPS 24KEc (400MHz)
ROM	Serial Flash 64Mbit
RAM	DDR2 SDRAM 1Gbit
OS	Linux 2.6.21
CPU Part	
Ethernet	4-Port Ethernet Switch (RJ45 Ethernet IP)
USB	USB 2.0Host
USIM	Push-Push Locking Type
WIFI	802.11 b/g/n Dipole antenna (SMA Type)
GPS	Active antenna (SMA Type)

Indicator	
LED (7ea)	Power, CPU, LAN(Link, Activity), WIFI, GPS, LTE
Power	
Power In	5 Vdc / 2A (Micro Fit 3.0 Type) Power Adapter



Nanov PA System Product Information

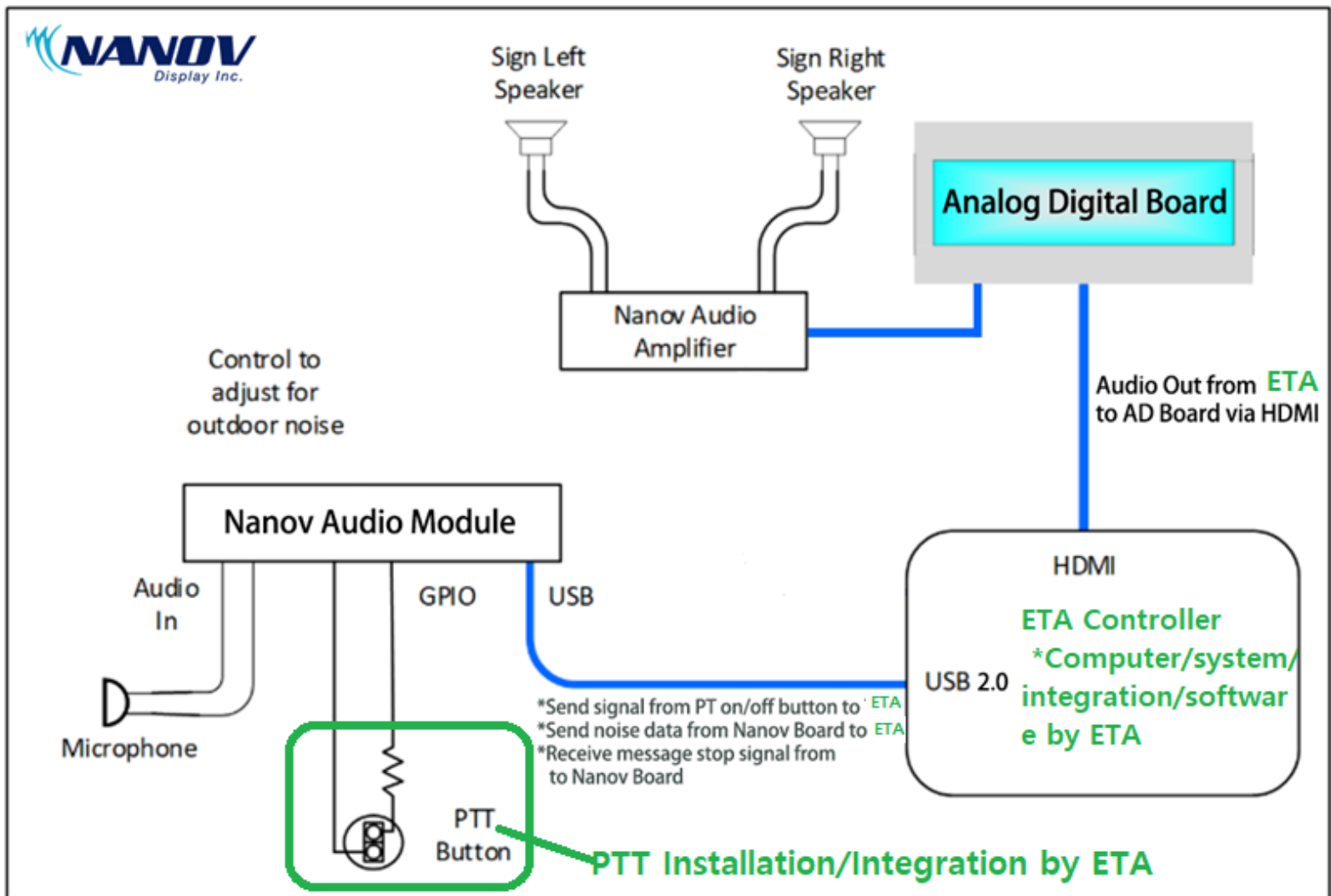
Product: Audio hardware embedded in LCD sign

Product Description: 20W PA hardware in LCD sign

Product model: TAH20-SFM

System consists: Microphone (Noise Sensor), Amplifier Board, Audio Board, Audio out USB port, and wire to amplifier

Transit Audio System Signal Flow – Las Vegas

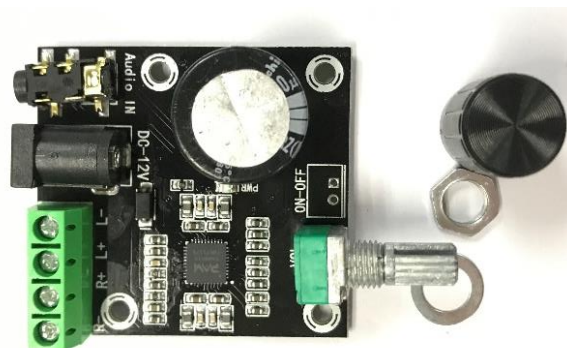


Function

Time	Description
T0	Nanov board samples microphone input and continuously adjust volume
T1	PTT button activated (PTT Button provided by ETA)
T2	Nanov board stops sampling noise one
T3	Nanov board send signal / message to ETA Media Player via USB2.0
T4	ETA Media Player plays message
T5	Message sent via HDMI cable to AD BD board
T6	AD BD board converts audio from digital to analog and plays through the speakers via the amplifier
T7	ETA Media Player stops playing message and send signal/message to Nanov board via USB
T8	Nanov board reactivate ETA PTT button
T9	Nanov board resumes noise sampling via microphone

Audio Amplifier Board Specification

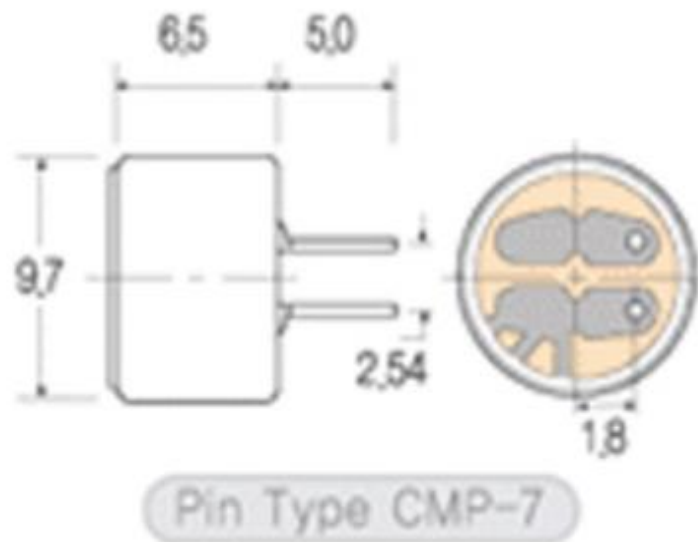
Parameter	Specification
Model Name	PAM8610
Work	D Class
Quiescent Current	20mA
Efficiency	90%
Rated output power	10W +10W (8Ω)
Frequency response	20Hz to 50KHz
Operating voltage	DC7.5-15V
Recommended supply voltage	12V, the center PIN of 12VDC is +.
PCB board size	40*40*20mm



Microphone Specification

Description: Microphone Noise Sensor

Parameter	Specification
Model Type	Wire Type CMT-762
Pin Type	CMP-762
Sensitivity (0dB =1V/Pa at 1Khz)	-42 +/- 2dB
Impedance	Max. 2.2KΩ
Standard Power Supply	4.5 V DC
Current Consumption	Max. 0.8mA
Sensitivity Reduction	Within -3dB at 3.0V
S/N Ratio	More than 6dB
Directivity	Omnidirectional



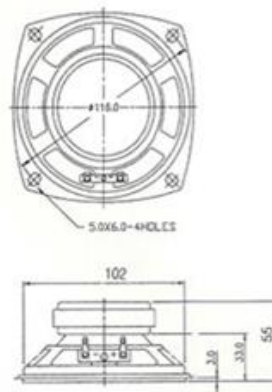
Audio Board Specification

Parameter	Specification
Size	50*70*20mm
Audio in	Microphone
I/O	Dry Contact PTT switch input
Interface	Serial to USB
Power	DC12V 1A

Outdoor Speakers Specification,

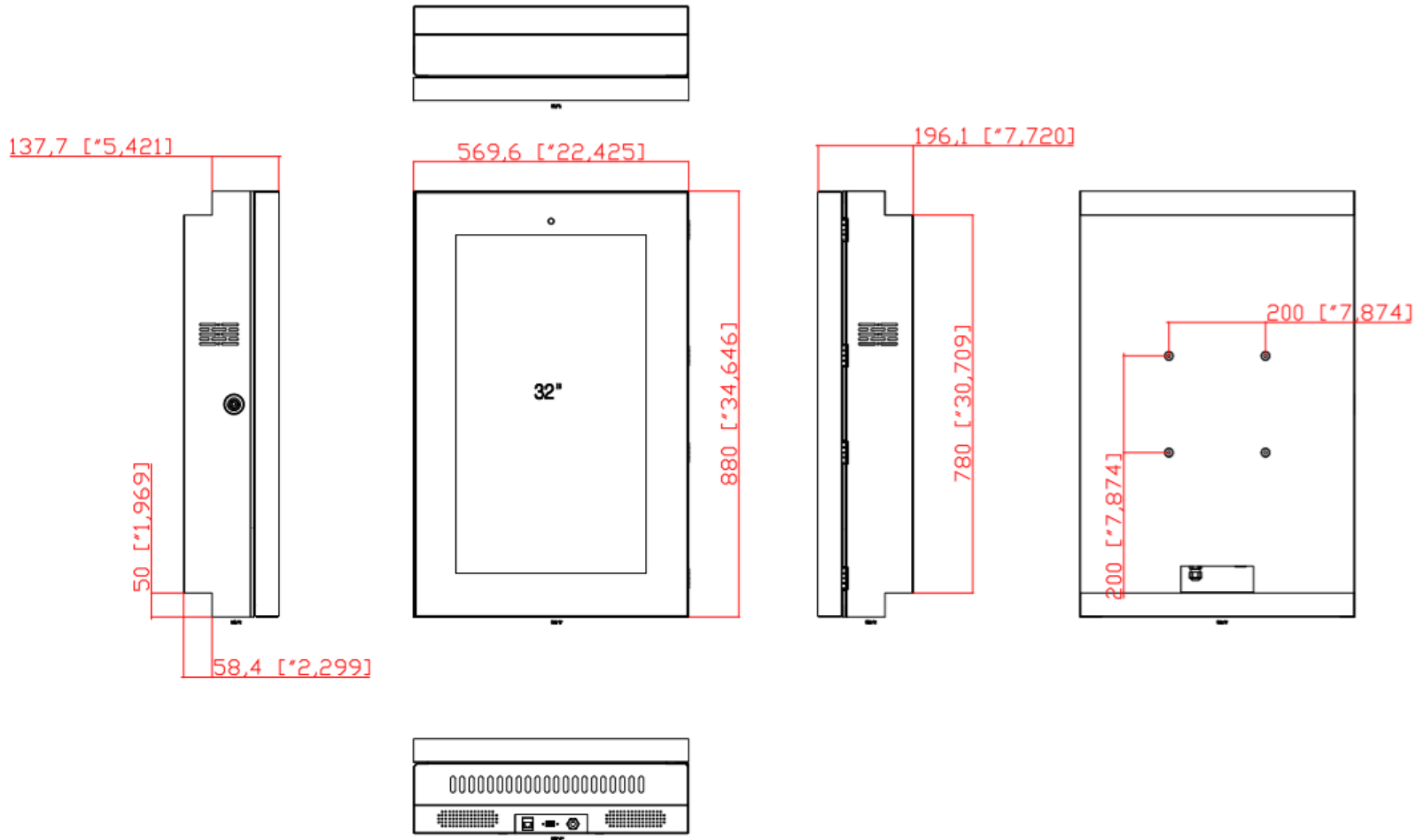
Model NICS-100825

Impedance	8 Ohms	
Power	Nominal	10 Watts
	Maximum	20 Watts



Physical Dimensions

Total System Weight: 50 kg. (110 lbs.) per unit



Remote Health Monitoring System Dashboard

Keywords delete

Name	Type	Group	IP	MAC	Status
SouthGarland-11-025-1946-132A	G3	Deployed	192.168.32.3	70:B3:D5:2D:04:D4	ON-LINE
MLK-12-007-1945-063A-F	G3	Deployed	192.168.32.3	70:B3:D5:2D:04:C9	ON-LINE
MLK-12-007-1945-063B-F	G3	Deployed	192.168.32.4	70:B3:D5:2D:04:CA	ON-LINE
LakeRayHubbard-09-033-1945-075A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:12	ON-LINE
LakeRayHubbard-09-033-1945-075B	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:15	ON-LINE
MLK-12-006-1945-066A-F	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:58	ON-LINE
MLK-12-006-1945-066B-F	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:66	ON-LINE
SouthGarland-11-023-1946-097A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:72	ON-LINE
SouthGarland-11-023-1946-097B	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:73	ON-LINE
JackHatchell-08-019-1946-089B	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:78	ON-LINE
JackHatchell-08-019-1946-089A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:74	ON-LINE
JackHatchell-08-020-1946-084A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:84	ON-LINE
JackHatchell-08-020-1946-084B	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:82	ON-LINE
SouthGarland-11-024-1946-082A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:79	ON-LINE

LCD Signs Control

Home / Equipment

Equip Info Condition **Control Set** Control Power History

Modified setting (Follow the control settings for the default setting or you can modify for each equipment.)

Equipment Value **Control Value**

Operation Mode	Auto	Auto	LED R	255	0 64 127 191 255
LCD Display ON/OFF	ON	ON	LED G	255	0 64 127 191 255
Brightness	70%	50%	LED B	0	0 64 127 191 255
Volume	50%	50%			
Input Source	HDMI	HDMI			

Archive History

Equip Info
Condition
Control Set
Control Power
History

Equipment SouthGarland-11-025-1946-132A
* Only one selected device will display history.

Period 1 Day 1 Week 1 Month Excel

Show Result

Brightness

Temp. 1,2,3

FAN Speed

Heater Operating Humidity

LCD POWER

FAN POWER

HEATER POWER

LCD Display ON/OFF

Pixel Moving Sensor

Door Status

Keywords delete

	Name	Type	Group	IP	MAC	Status
<input checked="" type="checkbox"/>	SouthGarland-11-025-1946-132A	G3	Deployed	192.168.32.3	70:B3:D5:2D:04:D4	ON-LINE
<input type="checkbox"/>	1046 116A	G3		102.169.32.151	70:B3:D5:2D:05:00	ON-LINE

Remote Access Disclaimer

Remote access of Nanov Sign controller (NRMCB-300)

It is the customer's decision to connect sign controllers via the internet. At any point, the customer can pull the internet line out. The customer can always request to send IoT data to their own server but developing an API or Amazon server user fee is paid for by the customer.

Nanov controllers are connected to the following sensors to monitor hardware health system – heater, computer, fan, temperature sensor, pixel moving sensor, door sensor, LCD panel. The controllers are registered with the MAC address. When the internet is connected to the controller for the first time, the controller searches for the Nanov Amazon server connection and registers the IP address automatically. When the customer designates their own server, Nanov re-routes the sign controller to the customer server. Nanov provides a confidential ID and PW to the customer when they are connected into the Nanov server. Nanov provides three months of complimentary server access to the customer. For the first three months, Nanov can use the IoT sensor data to monitor the hardware health of the LCD signs and recommend default set up value to customer. After three months, Nanov has a right to request disconnecting the internet from the controller. The customer will then pull the internet line out from the controller.

Concept Drawing – Speakers, I/O Ports



NIASM-320PC-124-LAS Concept Drawing



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