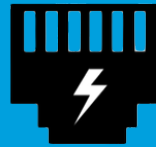


# NEBULA X Android Touchscreen Computer



Capacitive Touch



POE



Durable Built to Last

## Overview

The Nebula X Series is powered by an 8-core CPU (dual-core Arm® Cortex®-A76 + hexa-core Arm® Cortex®-A55) processor and is available in three models: 10-inch (ALU100), 15.6-inch (NES150), and 21.5-inch (NES210). These cost-effective, energy-efficient touchscreen tablets and all-in-one touchscreen computers are designed for commercial and industrial touchscreen applications. The series supports Wi-Fi (2.4GHz & 5GHz), Bluetooth 5.0, and Power over Ethernet (PoE) — IEEE802.3af for ALU100 and IEEE802.3at for ALU150 — and features vibrant displays (up to 1920×1080 resolution) with 10-point capacitive touch. Running Android 15 with GMS and STAROS kiosk software, the devices enable secure kiosk lockdown mode and multi-app kiosk functionality. Optional features include STAR CONTROL for remote device management (MDM), Musea Digital Signage Studio for interactive signage, Startool open-source API for third-party integration, as well as peripherals such as 1D/2D barcode scanners and RFID connectors. Ideally suited for self-service kiosks, touchscreen kiosks, restaurant ordering kiosks, retail touchscreen solutions, hotel check-in kiosks, and digital signage displays, the series supports over-the-air (OTA) updates and remote configuration, ensuring reliable operation in retail, hospitality, and industrial environments.

# Specification

		Nebula X		
	Model	ALU100 Part#733	NE150 Part#733	NES210 Part#733
Screen Size	Size	10"	15.6"	21.5"
Panel Info	Resolution	1280 x 800	1920 x 1080	1920 x 1080
	Panel Brightness	500cd/m <sup>2</sup>	450cd/m <sup>2</sup>	450cd/m <sup>2</sup>
	Brightness	425cd/m <sup>2</sup> with touch Screen	400cd/m <sup>2</sup> with touch Screen	400cd/m <sup>2</sup> with touch Screen
	Contrast	1000:1	1000:1	1300:1
	Aspect Ratio	16:10	16:9	16:9
	Active Display Area	216.576 x 135.36 mm	344.16 x 193.59 mm	476.064 x 267.786mm
	Viewing Angle	85°/85°/85°/85°	89°/89°/89°/89°	89°/89°/89°/89°
	Response time	30ms	20ms	14ms
Touch Data	Touch Tech	G+G 10 point cap touch	G+G 10 point cap touch Anti-glare glass IP65 Front Glass	G+G 10 point cap touch Anti-glare glass IP65 Front Glass
	Hardness Of Surface	≥ 6H	≥ 7H	> 6H
	Touch method	Finger touch , Capacitive stylus	Finger touch , Capacitive stylus	Finger touch , Capacitive stylus
	Transparency	≥85%	≥85%	≥86%
	Touch Glass Thickness	2mm (Not including Sensor thickness)	2mm (Not including Sensor thickness)	2mm (Not including Sensor thickness)
	Bonded Panel	Optical bonded capacitive touch Panel		
Hardware & OS	CPU	8-core CPU (Dual-core Arm® Cortex®-A76+Hexa-core Arm® Cortex®-A55, Up to 2.0 GHz)		
	GPU	IMG BXM-4-64 MCI		
	NPU	3 Tops		
	RAM	4GB LPDDR5		
	ROM	64GB EMMC Flash		
	OS	Android 15+GMS		
Software	STAROS	License Free Kiosk Mode Auto Lockdown Browser and Media Mode		
	STAR CONTROL (OPTIONAL)	Remote Device Management		
	STARTOOL	Open Source API		
	Musea	· Digital Signage Software · Remote Creating and Managing Interactive Signage Content Remotely		
Video/ Image	Video Format	H.265, VP8, RV, WMV, AVS, H.263, Mpeg4, Up to 4K decoding, HTML5, Flash 10		
	Audio Format	MP3, WMA, AAC, etc.		
	Image Format	JPEG, BMP, PNG		
Audio	Speaker	2 X 2W	2 x 5W	2 x 5W
Communication	Bluetooth	BT5.0		BT5.0
	Camera	2MP		
	Noise Cancellation	X2 with Noise Canceling	X2 with Noise Canceling	X2 with Noise Canceling
	Sensor	Ambient and Proximity sensor	N/A	N/A
WIFI	WIFI	802.11 a/b/g/n/ac 2.4GHz & 5GHz (Dual antenna)		
	Ethernet	10/100/1000 LAN POE		
General	Color	Grey+Black	Black or white	Black or white
	Plastic materials	Plastic ABS Flame Retardant, TBBA	Plastic ABS	Plastic ABS
	I/O	RJ45 x 1, TF slot x 1, TYPE C x 1(only OTG upgrade) , USB2.0 x 1, 3.5mm audio x 1, DC x 1	RJ45 x 1, TF slot x 1, TYPE C x 1(only OTG upgrade) , USB2.0 x 1, 3.5mm audio x 1, DC x 1	RJ45 x 1, TF slot x 1, TYPE C x 1(only OTG upgrade) , USB2.0 x 1, 3.5mm audio x 1, DC x 1
	Peripheral Connectors	TYPE C x 2 ( only for GS module)	TYPE C x 2 ( only for GS module)	TYPE C x 2 ( only for GS module)
	4G	NO	Optional	Optional
	POE	Yes (IEEE802.3af)	Yes (IEEE802.3at)	Optional IEEE802.3bt(PSE 90W)
	Included in Box	(Choose either Power In or POE but not both at the same time) Nebula Tablet, Power Adapter, Power Cable		
	Operating Environment	Working Temperature: 0-45 degree celsius		
	Language	Multi Language		
	Power Management	Power supply unit	External	External
Power supply		DC 12V 2A	DC 12V 5A	DC 12V 5A
Power usage		TBD	TBD	TBD
Sustainability	Regulations	FCC, CE, UKCA , RoHS support		
	REACH SVHC	REACH does not contain SVHC above 0.1%: Lead		
Mounting	VESA	75 x 75	100 x 100	100 x 100
Dimensions	Dimensions ( LxWXH)	256.96 x 175.6 x 28.85mm	375.98 x 32 x 227.98mm	515.97 x 36 x 311.97mm
	Weight	1.1kg	2.1 kg	3.6kg
	Box size / each pc (LxWXH)	385 x 222 x 65mm	443 x 115 x 303mm	583 x 115 x 382mm
	Master Box size ( LxWXH)	470 x 400 x 355mm	464 x 365 x 327mm	604 x 365 x 406mm
	Master Box Weight	15.2kg	8.5kg	13.7kg
	Pieces/ Carton	10pcs	3pcs	3pcs

## Peripheral Options

1D Barcode Newland	BC100-NEW
2D Barcode Zebra	BC200-ZEB
Elatec RFID Reader	RFID-ELA Part#HFP

## Mounting Options

Shelf Mount	FIX-014 (Foldable Mount with Magnet at one side) (For 10" models)
Desk Mount	FIX-027 (Foldable base bracket) (For 15.6" and 21.5" models)
	FIX-028 (Adjustable Desk Mount) (For 10" and 15.6" models)
	FIX-030 (For 15.6" and 21.5" models)
Wall Mount	WM015012S
Extend Bracket	FIX036 (Side Bracket)

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