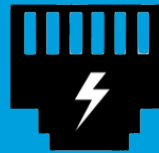# Nebula Gen 2
Android Touchscreen Computer

Capacitive Touch   **POE**   **Durable Built to Last**

Overview

The Nebula Generation 2 series features quad-core processors and is available in three models: 10-inch (ALU100), 15.6-inch (NES150), and 21.5-inch (NES210), all offered as commercial and industrial-grade touch panel PCs and all-in-one devices, combining high performance with energy efficiency. These devices come pre-installed with STAROS kiosk software, supporting secure kiosk mode and multi-application parallel operation. They integrate STAR CONTROL remote device management (MDM) and Musea digital signage interactive editing system, and provide Startool open API for third-party integration. Optional peripherals include 1D/2D barcode scanners and RFID readers. As a customized information terminal solution, the series supports over-the-air upgrades and remote configuration, making it suitable for applications such as self-service kiosks, restaurant ordering terminals, retail touch terminals, hotel check-in machines, hospital wayfinding kiosks, floor-standing/wall-mounted information terminals, fast-food restaurant ordering displays, and digital signage, delivering seamless interactive experiences for the retail, hospitality, and industrial sectors.

Choice of Wi-Fi / Ethernet or POE available with 10" and 15.6inch
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Modern design with flexible mounting in portrait, landscape and table-top orientation

Specification

	Model	ALU100 Part#568	NES150 Part#568	NES210 Part#568
			Nebula Generation 2	
Screen Size	Size	10"	15.6"	21.5"
Panel Info	Resolution	1280 x 800	1920 x 1080	1920 x 1080
	Panel Brightness	500cd/m²	450cd/m²	450cd/m²
	Brightness	425cd/m² with touch Screen	400cd/m² with touch Screen	400cd/m² with touch Screen
	Contrast	800:1	1000:1	1300:1
	Aspect Ratio	16:10	16:9	16:9
	Active Display Area	216.96 × 135.6 mm	344.16 × 193.59 mm	476.064 x 267.786mm
	Viewing Angle	85°/85°/85°/85°	89°/89°/89°/89°	89°/89°/89°/89°
	Response time	15ms	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%	≥85%
	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	Quad Core ARM Cortex A55@2.0GHz		
	RAM	4GB DDR4		
	ROM	32GB eMMC Flash		
	OS	Android 12		
Software	STAROS	License Free Kiosk Mode App and Multi App Mode, Auto Lockdown, Browser and Media Mode		
	STAR CONTROL(OPTIONAL)	Remote Mobile Device Management		
	STARTOOL	Open Source API		
	Musea	· Digital Signage Software · Remote Creating and Managing Interactive Signage Content Remotely		
	GMS	Support Android 11 GMS		
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	2x2W	2x5W	
Communication	Bluetooth	BT 5.0	BT 5.0	BT 5.0
	Noise Cancellation	X2 with Noise Canceling	X2 with Noise Canceling	X2 with Noise Canceling
	Camera	2 MP	2 MP	2 MP
	Sensor	Ambient & Proximity sensor	N/A	N/A
WIFI	WIFI	802.11 a/b/g/n/ac 2.4GHz & 5GHz (Three antenna)		
	Ethernet	100/1000 LAN POE	100/1000 LAN POE	100/1000 LAN POE
General	Color	Grey+Black	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, USB2.0 x 1, USB3.0 x 1, 3.5mm audio x 1,DC x 1, 1 × UART; 2×GPIO;1×Wiegand;1×VCC-5V	RJ45x1, TFslotx1, TYPECx1,USB2.0x1, USB3.0x1, 3.5mm audio x1, DCx1; 1×UART; 2×GPIO; ,1×Wiegand; 1×VCC-5V	RJ45x1, TFslotx1,TYPECx1, USB2.0x1, USB3.0x1, 3.5mm audio x1, DCx1 ;1×UART; 2×GPIO; 1×Wiegand; 1×VCC-5V
	Peripheral Connectors	TYPE C x 3 (only for GS module)	TYPE C x 2 (only for GS module)	TYPE C x 2 (only for GS module)
	4G	NO	optional	optional
	Included in Box	Nebula Tablet, Power Adapter, Power Cable		
	POE	Yes (IEEE802.3af)	Yes (IEEE802.3at)	Optional IEEE802.3bt(PSE 90W)
	Operating Environment	Working Temperature: 0-45 degree celsius		
	Language	Multi Language		
Power Management	Power supply unit	External	External	External
	Power supply	DC 12V 2A	DC 12V 5A	DC 12V 5A
	Power usage	8.5W typical, 0.9W stand by, 0.25W off mode	9.8W typical, 1.8W stand by, 0.25W off mode	
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 (For reference)	4.9kg (For reference)
	Box size / each pc(LxWXH)	385 x 222 x 65mm	443 x 115 x 303mm (For reference)	583 x 115 x 382mm (For reference)
	Master Box size (LXWXH)	470 x 400 x 355mm	464 x 365 x 327mm (For reference)	604 x 365 x 406mm (For reference)
	Master Box Weight	15.2kg	8.5kg (For reference)	17.5kg (For reference)
	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

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