Nebula Powerwise Android Touchscreen Computer

Capacitive Touch

POE

Durable Built to Last

Overview

The Nebula Powerwise Series, powered by the Qualcomm 6225 8-core processor, delivers energy-efficient, high-performance touchscreen tablets and all-in-one touchscreen computers in 10-inch (ALU100), 15.6-inch (NES150), and 21.5-inch (NES210) models for commercial touchscreen and industrial touchscreen applications. Featuring robust 4G connectivity, Wi-Fi, Bluetooth 5.1, and vibrant 1920x1080 high-brightness displays with 10-point touch, these commercial displays ensure low power consumption (4.3W standby). Running Android 13 with STAROS kiosk software for secure kiosk mode and multi-app kiosk functionality, the series supports STAR CONTROL remote device management (MDM), Musea Digital Signage Studio for interactive signage, and Startool open-source API for third-party integration, alongside optional peripherals like 1D/2D barcode scanners and RFID connectors. Ideal for self-service kiosks, touchscreen kiosks, restaurant ordering kiosks, retail touchscreen solutions, hotel check-in kiosks, healthcare kiosks, freestanding kiosks, wall-mounted kiosks, QSR kiosks, and digital signage screens, this customizable kiosk series offers over-the-air updates and remote configuration for seamless operation in retail, hospitality, and industrial environments.

Available in 10”, 15.6” and 21.5” widescreen with selectable high-performance CPUs and IPS capacitive touchscreen

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Optimize deployments with cloud-based configuration, monitoring and scheduling

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Modern design with flexible mounting in portrait, landscape and table-top orientation

Specification

		Nebula Powerwise Series		
	Model	ALU100 Part#225	NES150 Part#225	NES210 Part#225
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%	≥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 (4xA73 2.4GHz & 4xA53 1.9GHz)		
	RAM	4GB		
	ROM	64GB EMMC		
	OS	Android 13		
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	Yes, Support GMS		
Video/ Image	Video Format	MP4、mpg、VOB、mkv、mov、flv、avi、3gp、wmv		
	Audio Format	wma、wav、aac、flac、mid、ape、mp2、lrc、m4a、mp1		
	Image Format	BMP、gif、PNG、jpg		
Audio	Speaker	2x2W	2x5W	2x5W
Communication	Bluetooth	BT 5.1		
	Noise Cancellation	X2 with Noise Canceling		
	Camera	5 MP		
	Sensor	Ambient & Proximity sensor	N/A	N/A
	WIFI	802.11 a/b/g/n/ac/ax read 2.4GHz & 5GHz (Single antenna)		
	Ethernet	100/1000 LAN POE		
	4G	Yes (Dual antenna)		
	GPS	Yes (Single antenna)		
General	Color	Grey+Black	Black or white	Black or white
	Plastic materials	Plastic ABS Flame Retardant, TBBA	Plastic ABS	Plastic ABS
	I/O	RJ45x1, SIMx1, TYPECx1, USB3.0x1, USB2.0x1, 3.5mm audio x1, DCx1	RJ45x1, SIMx1 ,TYPECx1, USB3.0x1, USB2.0x1, 3.5mm audio x1, DCx1	RJ45x1, SIMx1 ,TYPECx1, USB3.0x1,USB2.0x1,, 3.5mm audio x1, DCx1
	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)
	Included in Box	Nebula Tablet, Power Adapter, Power Cable		
	POE	Yes (IEEE802.3af)	Yes (IEEE802.3at) isolation	Optional (IEEE802.3bt) isolation
	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	8.8W typical, 2.7W stand by, 0.6W off mode	10.9W typical, 5.5W stand by, 0.7W off mode	23.4W typical, 5.1W stand by, 1.3W 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	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

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