



## **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**

Screen Size				Nebula Generation 2			
Panel Info					NES210 Part#568		
Pamel Brightness	Screen Size	Size	10"	15.6"	21.5"		
Brightness	Panel Info	Resolution	1280 x 800	1920 x 1080	1920 x 1080		
Contrast   B001   10001   1800   169   1		Panel Brightness	500cd/m <sup>2</sup>	450cd/m <sup>2</sup>	450cd/m <sup>2</sup>		
Active Display Aree		Brightness	425cd/m² with touch Screen	400cd/m <sup>2</sup> with touch Screen	400cd/m² with touch Screen		
Active Display Area   216.96 + 135.6 mm   3.44.16 + 193.59 mm   476.06 x x x 5		Contrast	800:1	1000:1	1300:1		
Active Display Area   216.96 x 135.6 mm   3.44.16 + 193.59 mm   476.06 x x x 2		Aspect Ratio	16:10	16:9	16:9		
Viewing Angle   857857857857   887857857857   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867   897867867867867   897867867867   897867867867   897867867867   8978678678678678   897867867867867   897867867867867   897867867867867867867867867867867867867867		Active Display Area	216.96 × 135.6 mm	344.16 × 193.59 mm	476.064 x 267.786mm		
Response time					89°/89°/89°		
Touch Tech							
Hardness Of Surface   2 6H   2 7H   5 6F     For Touch method   Finger touch , Capacitive stylus   Finger touch   Finger Stylus   Finger Stylus	Touch Data				G+G 10 point cap touch		
Hardness of Surface   \$6H   \$7H   \$75	TOUCH Data	Todell Tech	a to point cap touch		Anti-glare glass		
Hardness Of Surface   ≥ 6H   2° 7H   > 6H   70 cm method   Touch method   Finger touch, Capacitive stylus   Finger touch, Capacitive stylus   569					IP65 Front Glass		
Touch method   Finger touch		Hardness Of Surface	> 6H				
Transparency							
Touch Class Thickness   Bonded Panel   Bonded Panel   Optical bonded capacitive touch Panel							
Bonded Panel							
Service   CPU			2mm (Not including Sensor thickness)	, ,	2mm (Not including Sensor thickness		
BAM   ROM   32GB eMMC Flash   Android 12		Bonded Panel	Optical bonded capacitive touch Panel				
ROM OS	Hardware & OS	CPU	Quad Core ARM Cortex A55@2.0GHz				
Software		RAM	4GB DDR4				
STAROS		ROM					
STAR   CONTROL(OPTIONAL)   STARTOOL   Open Source API		OS					
STAR   CONTROL(OPTIONAL)   STARTOOL   Open Source API	Software						
CONTROLIOPTIONAL    STARTOOL   Open Source AP    Musea							
STARTOOL   Musea			Remote Mobile Device Management				
Musea   Digital Signage Software   Remote Creating and Managing Interactive Signage Content Residue			Open Source ADI				
Video   Image							
Video Format         H.265, VP8, RV, WMV, AVS, H.263, Mpeg4, Up to 4K decoding, HTML5, Flash 10           Audio and Pormat Image Format Image							
Audio Format   MP3, WMA, AAC, etc.   Image Format   Image Format   JPEG, BMP, PNG   Speaker   2x2W   2x5W   Smmnunication   Bluetooth   BT 5.0   BT 5.0   BT 5.0   BT 5.0   ST 5.0	v.c. 1 / 1		11.365 V/D0 DV/ VA		LITALE EL 1.30		
Madio   Speaker   2x2W   2x5W   2x5	video/ image						
Audio   Speaker   2x2W   BT50   BT50   BT50   BT50   BT50			MP3, WMA, AAC, etc.				
Noise Cancellation   Sluetooth   ST 5.0   ST 5.0   ST 5.0		Image Format	JPEG, BMP, PNG				
Noise Cancellation   X2 with Noise Canceling   X2 with Noise Canceling   Camera   2 MP   2 MP   2 MP   2 MP   2 MP   N/A   N	Audio	Speaker	2x2W 2x5W				
Camera   2 MP   2 MP   2 MP   3 MF   5 MP   2 MF   5 MP   1 MP   5 MP	ommunication	Bluetooth	BT 5.0	BT 5.0	BT 5.0		
Sensor		Noise Cancellation	X2 with Noise Canceling	X2 with Noise Canceling	X2 with Noise Canceling		
WIFI		Camera	2 MP	2 MP	2 MP		
WIFI		Sensor	Ambient & Proximity sensor	N/A	N/A		
Ethernet   100/1000 LAN POE	WIFI						
Color							
Plastic materials	Ceneral		-				
Flame Retardant, TBBA	Gerierai		-				
No		Plastic I laterials		Plastic Ab3	Pidstic Abs		
Peripheral Connectors		1/0	RJ45 x 1, TF slot x 1, TYPE C x 1, USB2.0 x 1,		RJ45x1, TFslotx1,TYPECx1, USB2.0x1, USB3.0x1, 3.5mm audio x1,		
Conly for GS module			UART; 2×GPIO;1×Wiegand;1×VCC-5V	1×UART; 2×GPIO; ,1×Wiegand; 1×VCC-5V	DCx1;1×UART; 2×GPIO; 1×Wiegand; 1×VCC-5V		
Conly for GS module		Peripheral Connectors	TYPE C x 3	TYPE C x 2	TYPE C x 2		
Included in Box			( only for GS module)	( only for GS module)	( only for GS module)		
Included in Box		4G	NO	optional	optional		
POE         Yes (IEEE802.3af)         Yes (IEEE802.3at)         Yes (IEEE802.3at)         Option (IEEE802.3bt)           Operating Environment Language         Working Temperature: 0-45 degree celsius           Power Power Management Management Power supply unit Power supply DC 12V 2A         External External External External DC 12V 5A							
POE         (IEEE802.3af)         (IEEE802.3at)         IEEE802.3bt (IEEE802.3bt)           Operating Environment         Working Temperature: 0-45 degree celsius           Language         Multi Language           Power Management         Power supply unit         External         External         External         DC 12V 5A         DC 12V           Power usage         8.5W typical, 0.9W stand by, 0.25W off mode         9.8W typical, 1.8W stand by, 0.25W off mode         FCC, CE, UKCA , RoHS support           Sustainability         REACH SVHC         REACH does not contain SVHC above 0.1%: Lead           Mounting         VESA         75 x 75         100 x 100         100 x 1           Dimensions         Dimensions (LxWXH)         256.96 x 175.6 x 28.85mm         375.98 x 32 x 227.98mm         515.97 x 36 x 3           Weight         1.1kg         2.1 kg (For reference)         4.9kg (For reference)		included in Eax					
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           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 1           Dimensions         Dimensions (LxWXH)         256.96 x 175.6 x 28.85mm         375.98 x 32 x 227.98mm         515.97 x 36 x 3           Weight         1.1kg         2.1 kg (For reference)         4.9kg (For reference)		POF			IEEE802.3bt(PSE 90W)		
Language			i i				
Power Management         Power supply unit         External         DC 12V					us		
Management         Power supply         DC 12V 2A         DC 12V 5A         DC 12V           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 1           Dimensions         Dimensions (LxWXH)         256.96 x 175.6 x 28.85mm         375.98 x 32 x 227.98mm         515.97 x 36 x 3           Weight         1.1kg         2.1 kg (For reference)         4.9kg (For reference)	Danne		E. was all		F. daniel		
Power usage		113					
Mode	Management				DC I2V 5A		
Mounting         VESA         75 x 75         100 x 100         100 x 1           Dimensions         Dimensions (LxWXH)         256.96 x 175.6 x 28.85mm         375.98 x 32 x 227.98mm         515.97 x 36 x 3           Weight         1.1kg         2.1 kg (For reference)         4.9kg (For reference)		Power usage	mode mode				
Mounting         VESA         75 x 75         100 x 100         100 x 1           Dimensions         Dimensions (LxWXH)         256.96 x 175.6 x 28.85mm         375.98 x 32 x 227.98mm         515.97 x 36 x 3           Weight         1.1kg         2.1 kg (For reference)         4.9kg (For reference)	Sustainability	Regulations	FCC, CE, UKCA , RoHS support				
Mounting         VESA         75 x 75         100 x 100         100 x 1           Dimensions         Dimensions (LxWXH)         256.96 x 175.6 x 28.85mm         375.98 x 32 x 227.98mm         515.97 x 36 x 3           Weight         1.1kg         2.1 kg (For reference)         4.9kg (For reference)			DEACH does not contain SVHC above 0.1%: Lead				
Dimensions         Dimensions (LxWXH)         256.96 x 175.6 x 28.85mm         375.98 x 32 x 227.98mm         515.97 x 36 x 3           Weight         1.1kg         2.1 kg (For reference)         4.9kg (For reference)	Mauntin						
Weight 1.1kg 2.1 kg (For reference) 4.9kg (For re							
	Dimensions				515.97 x 36 x 311.97mm		
			_	= :	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		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		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 re		Master Box Weight	15.2kg	8.5kg (For reference)	17.5kg (For reference)		
					3pcs		

# **Peripheral Options**

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

### **Mounting Options**

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

#### **CONTACT US**

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