CRYSTAL DISPLAY SYSTEMS LTD
INDUSTRIAL HIGH RELIABILITY TABLETS

CDS
Crystal Display Systems Ltd

Gaming user control

USER 1 – ENTER BIRTH DATE

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
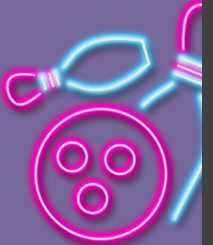
Kiosk & EPOS

Check in terminals

PLEASE CONFIRM YOUR GENDER
MALE
FEMALE
PREFER NOT TO SAY

Cardio Exercise

Cardio Exercise

Cardio Exercise

NEBULA RANGE

Industrial high reliability ANDROID tablets

The Nebula touchscreen computer is a versatile device that caters to various applications, including health checking, check-in systems, fridge consoles, gaming, and fitness score-boards. It offers a comprehensive solution for interactive displays enabling intuitive user interaction and engagement.

- Support Android 12
- Remote manage with ease
- Free kiosk lockdown app
- Add-on peripheral slots and supports POE
- Open source API
- High brightness panel at 500cd/m²

NEBULA GEN 2 Industrial high reliability ANDROID tablets

Screen Spec	NEB-101-G2-G 10.1 inch	NEB-156-G2-G 15.6 inch	NEB-215-G2-G 21.5 inch
Aspect Ratio	16:10	16:9	16:9
Resolution	1280x800	1920x1080	1920x1080
Panel Brightness	500cdm²	250cdm²	250cdm²
Response Time	15ms	20ms	14ms
Contrast Ratio	800:1	800:1	1000:1
Viewing Angle	85º/85º/85º/85º	85º/85º/85º/85º	89º/89º/89º/89º
Touch Technology	G+G 10 point PCAP touch	G+G 10 point PCAP touch	G+G 10 point PCAP touch
Touch glass thickness	2.55mm	2.05mm	2.95mm
Product dimensions	256.96 x 175.6 x 28.85mm	394 x 44 x 251mm	535 x 46 x 326mm
Viewing area	216 x 135 mm	344 x 193 mm	476 x 268 mm
Product weight	1.1kg	2.1Kg	4.9kg
VESA	75 x 75mm	100 x 100mm	100 x 100mm
Speakers	2x2W	2x5W	2x5W
Temp spec	0~45ºC	0~45ºC	0~45ºC
Power supply	DC 12V 2A (external)	DC 12V 5A (external)	DC 12V 5A (external)
Power usage	8.5W typical, 0.9W stand by	8.9W typical, 1W stand by	15.2W typical, 1.7W stand by
Approvals	FCC, CE, UKCA , RoHS support	FCC, CE, UKCA , RoHS support	FCC, CE, UKCA , RoHS support

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NEBULA GEN 2 — Industrial high reliability ANDROID tablets

Integrated Player Specification

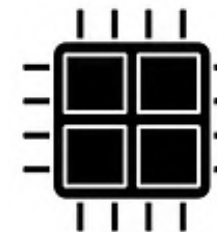|	
Operating System	Android 12
Processor	Quad core ARM Cortex A55@2.0Ghz
Touch glass thickness	2.55mm
Memory	4GB DDR4
Storage	32GB eMMC Flash
WIFI / Bluetooth	802.11 a/b/g/n/ac 2.4GHz & 5GHz, BT 5.0
Speakers	2x2W
I/O	RJ45x1, TFslotx1, TYPECx1,USB2.0x1, USB3.0x1, 3.5mm audio x1, DCx1; 1×UART; 2×GPIO; 1×Wiegand; 1×VCC-5V
POE	10.1" / 15.6" IEEE802.3 at 21.5" Optional IEEE802.3bt(PSE 90W)

Durable built to last

API third party integration

Quad core processor

Easy cable management

Power over ethernet POE

Noise cancelation

Android 12 OS

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NEBULA GEN 2
Industrial high reliability ANDROID tablets

Open Source API

Kiosk Lockdown App

Remote Management

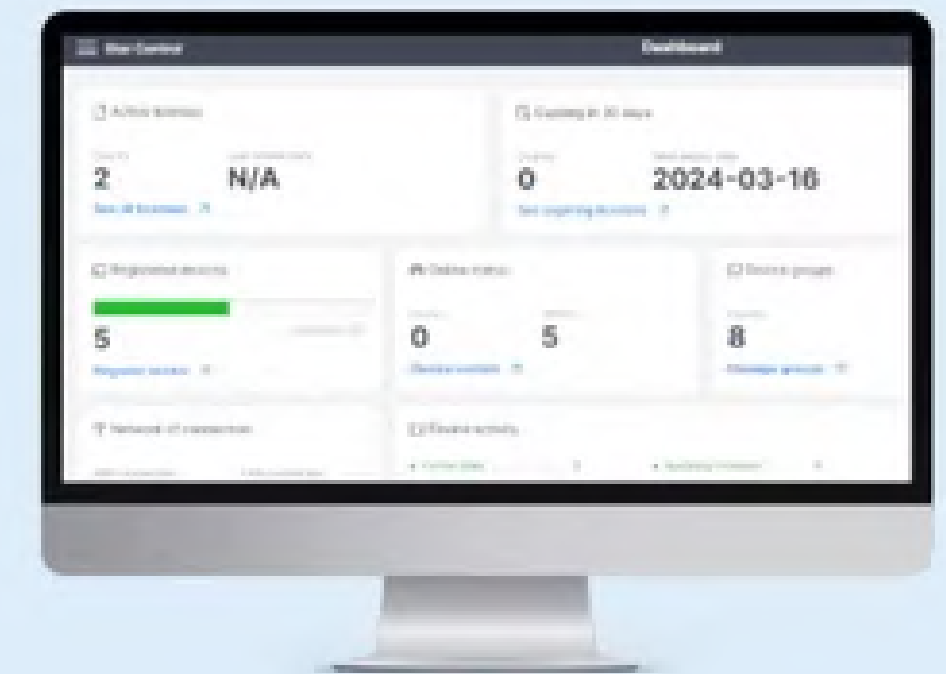**STAR TOOL** is an open source API that allows third party developers to control Glory Star hardware with ease

Use **FREE Staros** to auto start videos, webpages and apps, and prevent unwanted third party access to ensure secure in wall touch screen on Nebula kiosk touchscreen computer

Use **StarControl** to remotely manage all Glory Star devices at the same time, systematically update and manage user requests in one single MDM platform.

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NEB-101-G2-G Industrial high reliability ANDROID tablets

The **10.1"** Nebula Gen 2 Touchscreen Computer series provides flexible Android 12 solutions. These devices are equipped with IPS touch displays, a quad-core ARM processor, and strong connectivity, making them perfect for kiosks and digital signage.
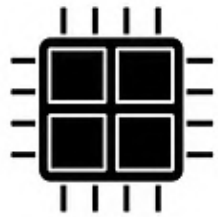
Durable built to last

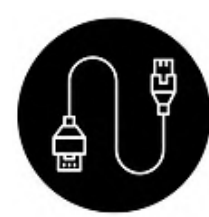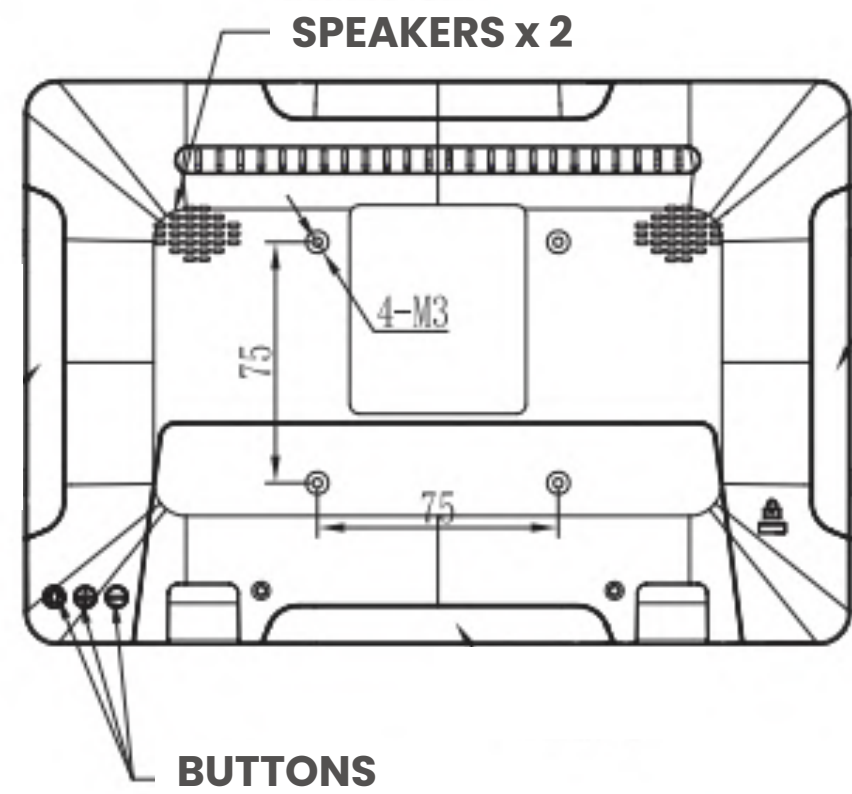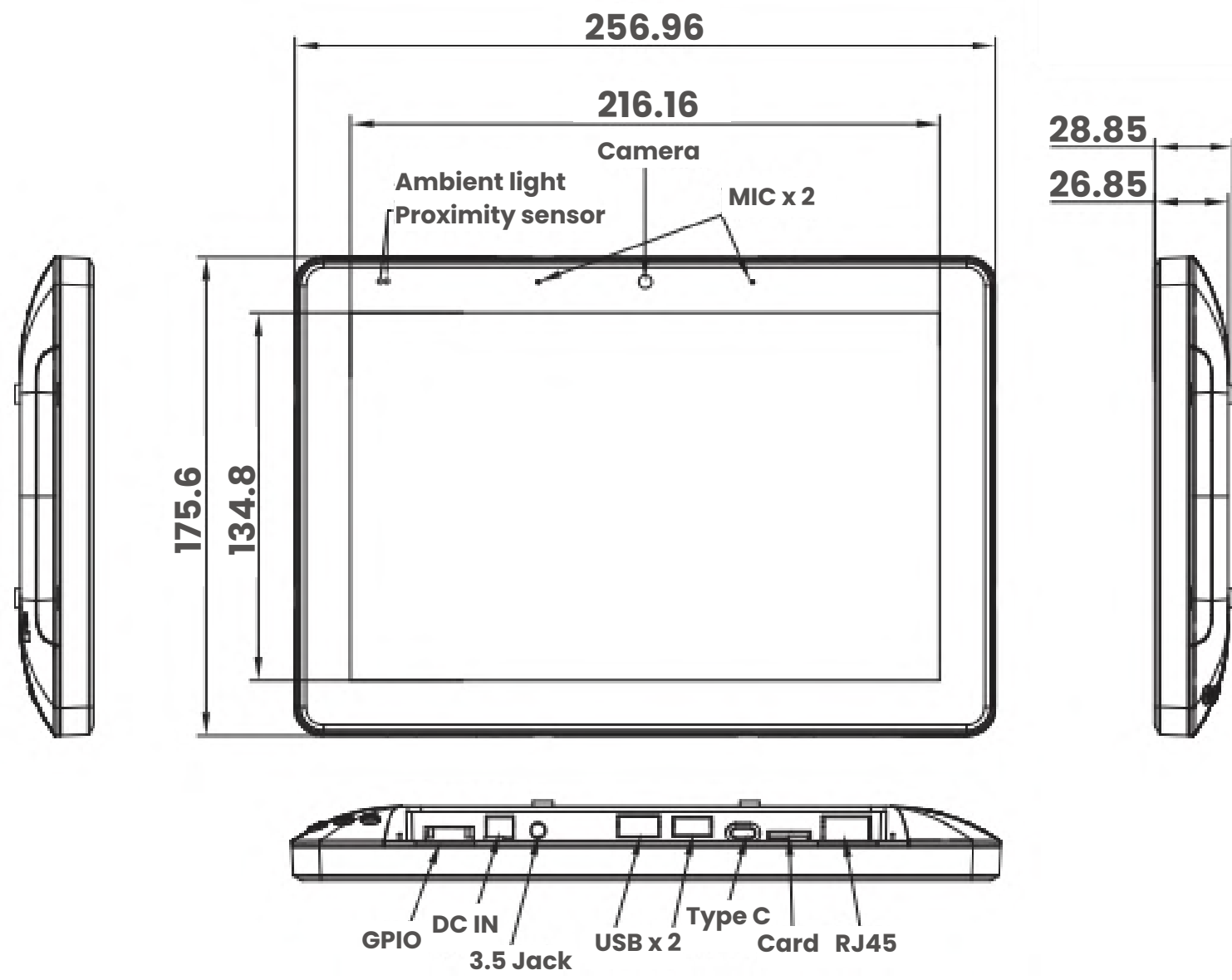**Power over ethernet POE**

API third party integration

Noise cancelation

Quad core processor

Android 12 OS

Easy cable management

256.96

216.16

Camera

Ambient light
Proximity sensor

MIC x 2

28.85

26.85

175.6

134.8

SPEAKERS x 2

4-M3

75

75

BUTTONS

GPIO   DC IN

3.5 Jack   USB x 2   Type C   Card   RJ45

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for display solutions*

NEB-156-G2-G Industrial high reliability ANDROID tablets

The 15.6" Nebula Gen 2 Touchscreen Computer series offers adaptable Android 12 capabilities. These units feature vivid IPS touch displays, a swift quad-core ARM processor, and robust connectivity, making them ideal for kiosks and digital signage applications.
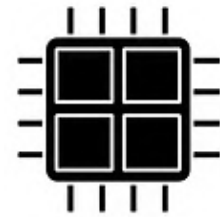
Durable built to last
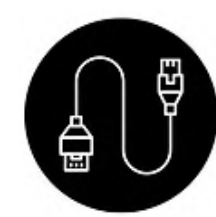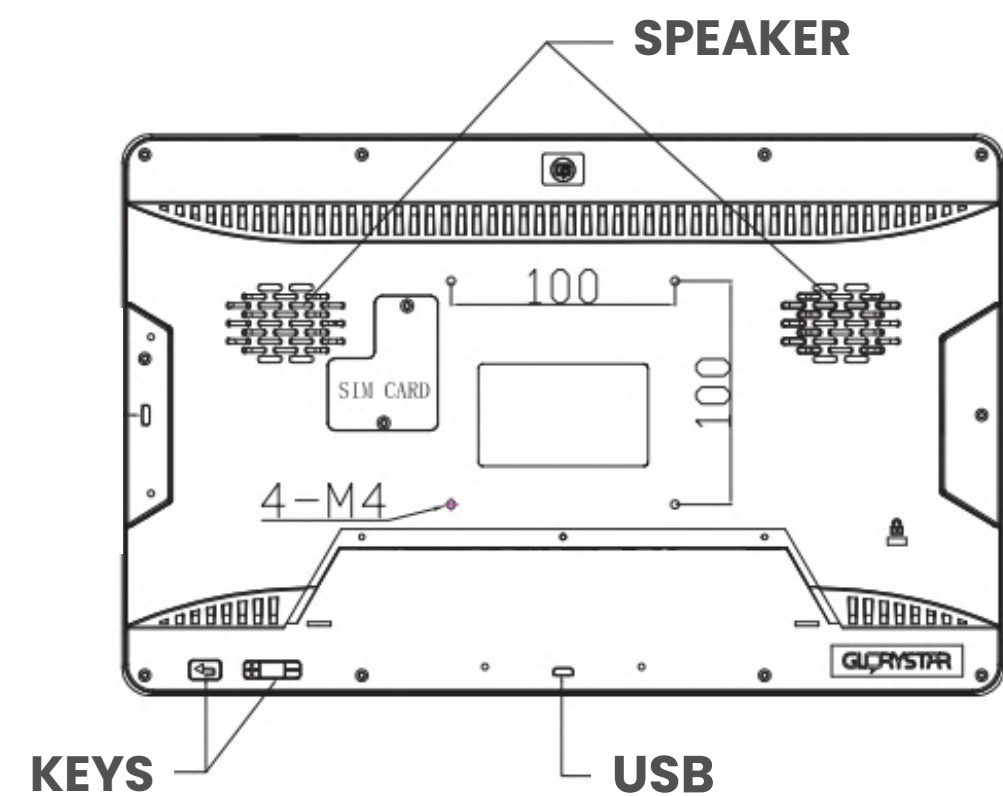
Power over ethernet POE

API third party integration

Noise cancelation

Quad core processor

Android 12 OS

Easy cable management

393.98

343.54

138

Camera

MIC x 2

44

19

250.98

192.83

USB

SPEAKER

100

100

SIM CARD

4-M4

GLORYSTAR

KEYS

USB

RJ45

TF Card

USB   USB

Type C

Audio out

GPIO

DC In

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NEB-215-G2-G Industrial high reliability ANDROID tablets

The Nebula Gen 2 Touchscreen Computer series presents versatile Android 12 options within its **21.5-inch** display. Each device comes with an IPS touch display, a quad-core ARM processor, and strong connectivity, making them well-suited for kiosks and digital signage.

Durable built to last

Power over ethernet POE
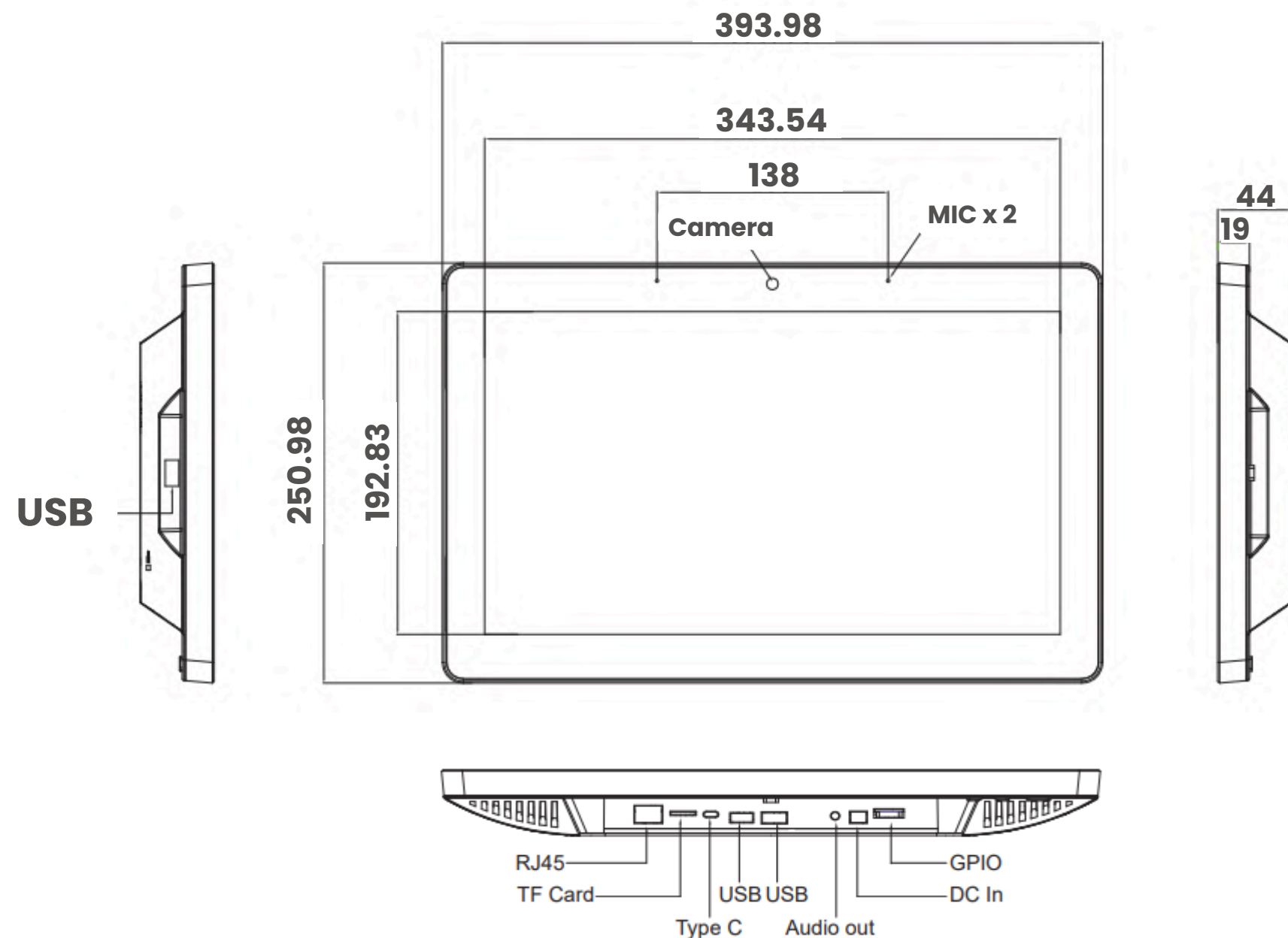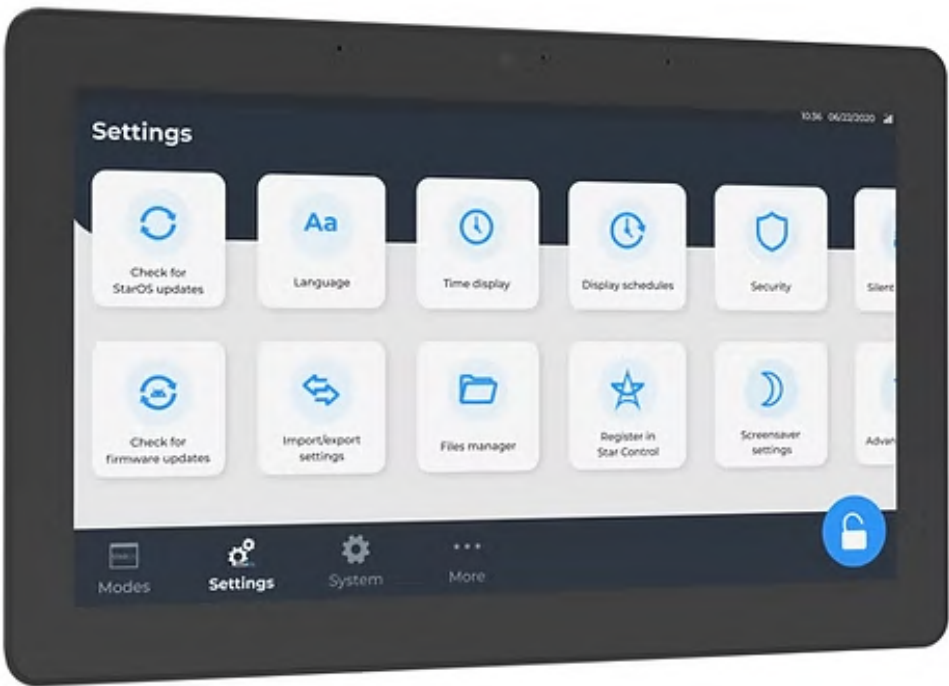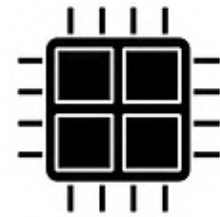
API third party integration

Noise cancelation

Quad core processor

Android 12 OS

Easy cable management

534.56

476

224

Camera   mic

SPEAKERS

326.06

267.5

USB

USB

100

SIM CARD

100

4-M4

USB

KEY

RJ45

TF Card

2 x USB

Type C

Audio out

GPIO

DC In

USB

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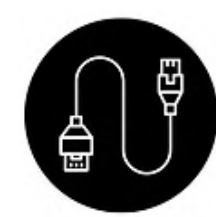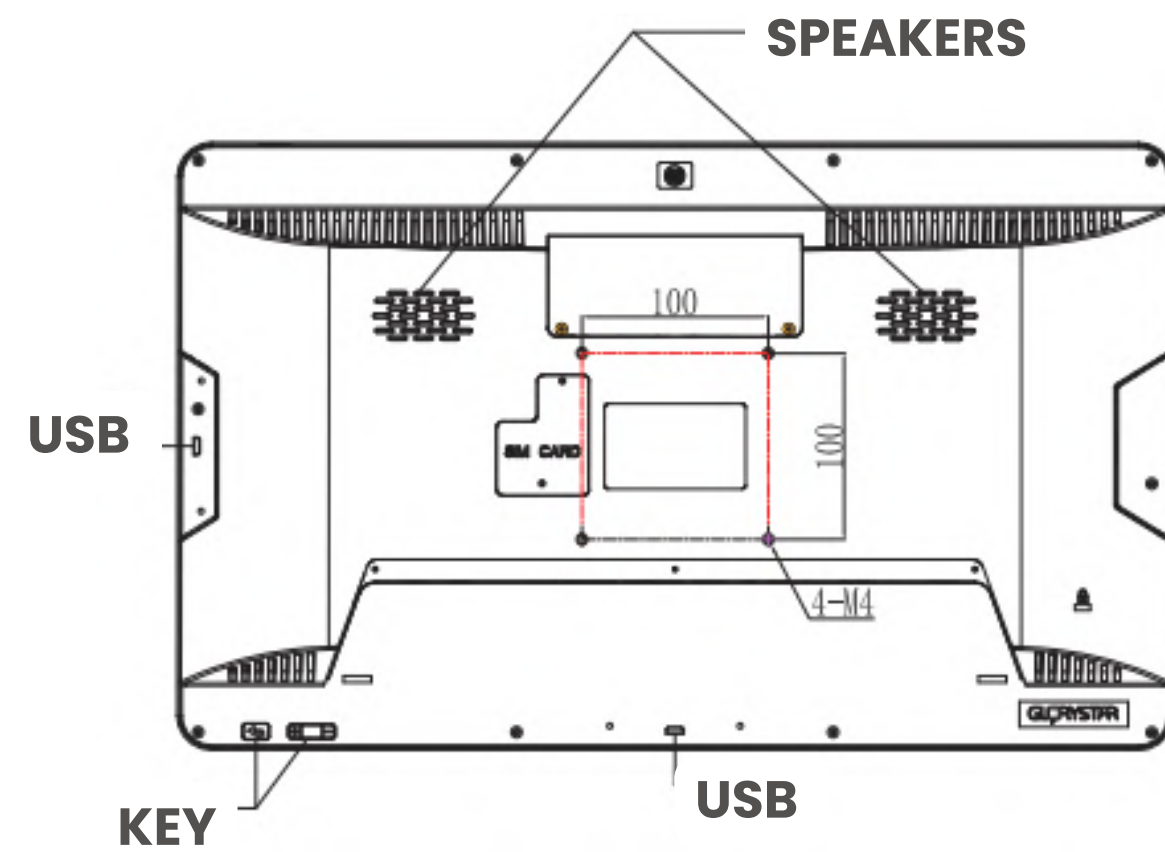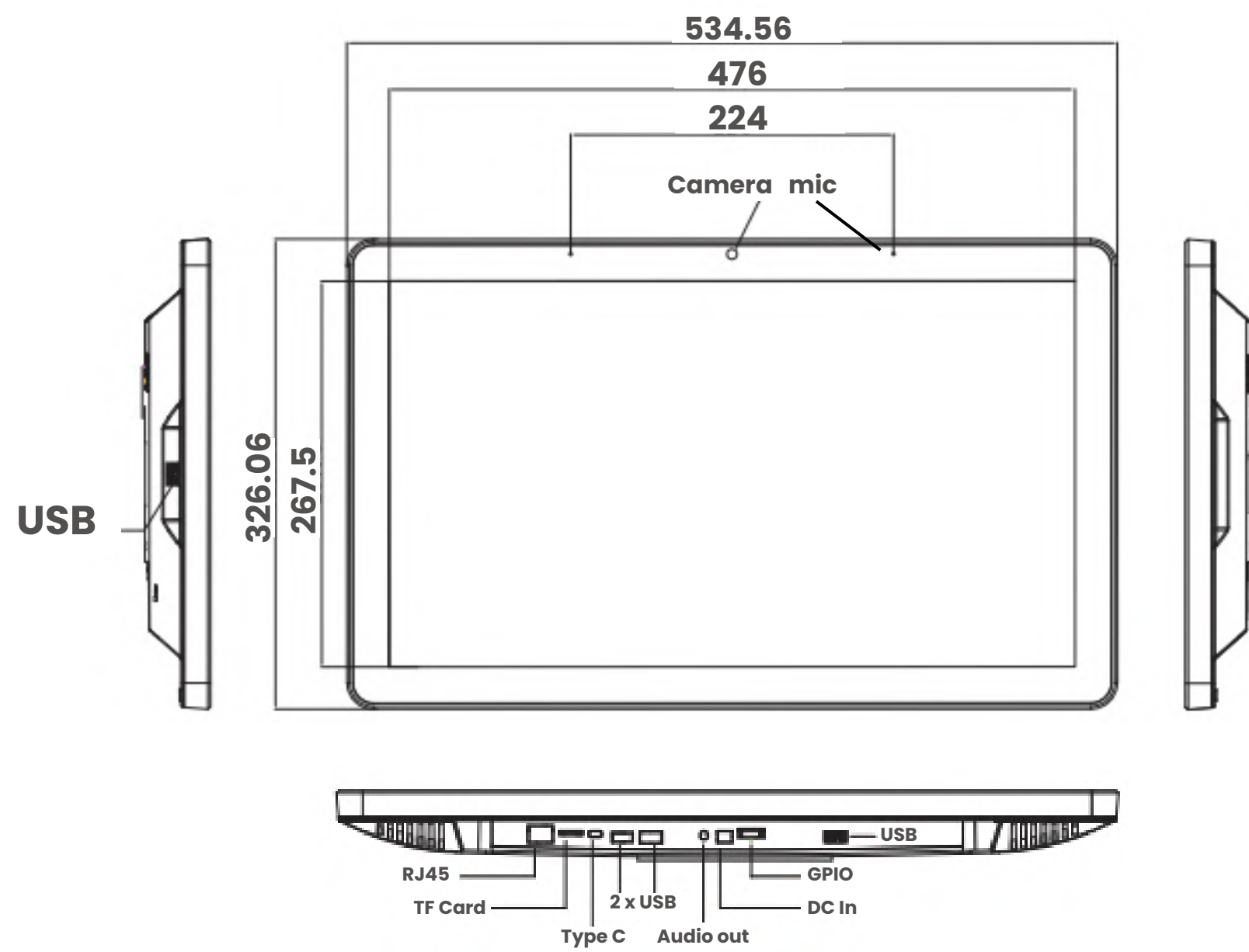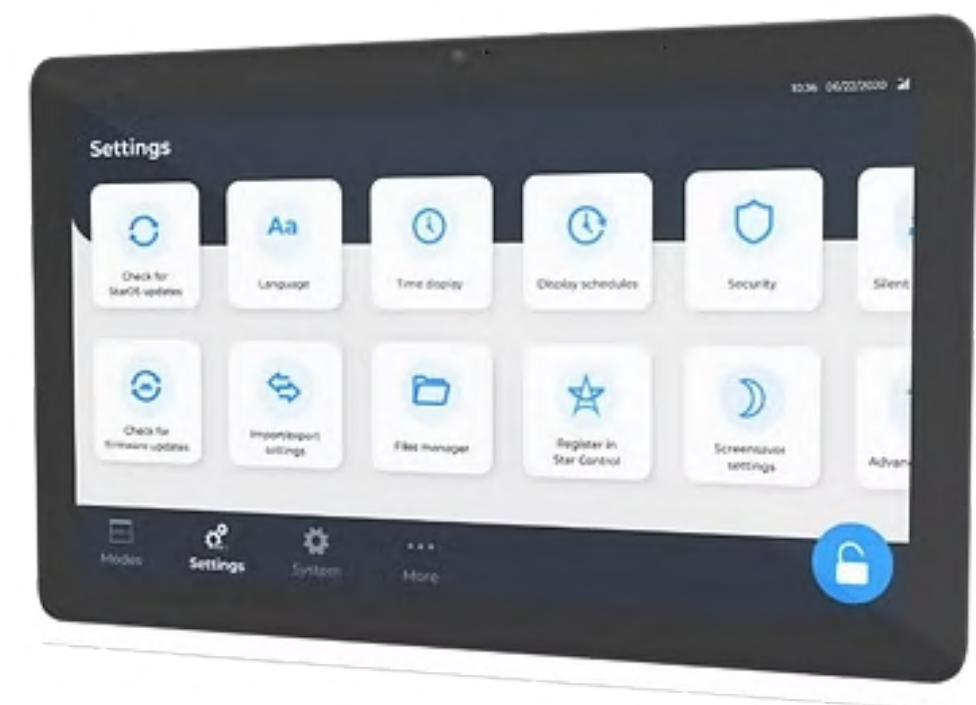
ULTRON RANGE

Industrial high reliability WINDOWS tablets

CLICK FOR MORE INFO

Available in 10.1, 15.6, and 21.5 inch sizes, with optional stand configurations, the Ultron touchscreen computers series can be easily customized to meet the diverse needs of your business - from kitchen display, digital signage, point-of-sale to self-service kiosks, Fitness Consoles, and beyond.

- PCAP touch screen
- Windows OS
- Durable and built to last
- Long continuity of supply
- Simple VESA mounting
- Choice of processor

ULTRON RANGE Industrial high reliability WINDOWS tablets

Screen Spec	ULT-101-xx-G 10.1 inch	ULT-156-xx-G 15.6 inch	ULT-215-xx-G 21.5 inch
Aspect Ratio	16:10	16:9	16:9
Resolution	1280x800	1920x1080	1920x1080
Panel Brightness	500cdm²	250cdm²	500cdm²
Response Time	30ms	25ms	20ms
Contrast Ratio	800:1	800:1	1000:1
Viewing Angle	85º/85º/85º/85º	85º/85º/85º/85º	89º/89º/89º/89º
Touch Technology	G+G 10 point PCAP touch	G+G 10 point PCAP touch	G+G 10 point PCAP touch
Touch glass thickness	2.9mm	2.05mm	2.95mm
Product dimensions	266 x 185 x 44 mm	394 x 251 x 44 mm	531 x 322 x 44 mm
Viewing area	217 x 136 mm	344 x 194 mm	476 x 268 mm
Product weight	1.95kg	3.3Kg	6kg
VESA	75 x 75mm	100 x 100mm	100 x 100mm
Speakers	2x2W	2x5W	2x5W
Temp spec	0~45ºC	0~45ºC	0~45ºC
Power consumption — J6412 / i31215U / i5-1235U	18W DC 12V 2A (external psu) / 55W DC 12V 7.5A (external psu) / 65W DC 12V 7.5A (external psu)	30W DC 12V 5A (external psu) / 60W DC 12V 7.5A (external psu) / 70W DC 12V 7.5A (external psu)	36W DC 12V 5A (external psu) / 65W DC 12V 7.5A (external psu) / 75W DC 12V 7.5A (external psu)

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ULTRON RANGE Industrial high reliability WINDOWS tablets

Integrated Player Specification - Celeron J6412

CPU	i3-1215U
P-core max turbo freq	2.6GHz (CPU Turbo boost)
E-core max turbo freq	2.0 GHz (Base frequency)
Core	4
Thread	4
CPU Cache	1.5MB
BIOS	AMI UEFI BIOS
RAM	8GB, Single Ch SO-DIMM DDR4 (Max 32GB)
ROM	10" M.2 256GB SSD	15" & 21" SATA3.0 256GB SSD
OS	Win 10 IoT Ent LTSC 2019 English 64bit. Linux 32/64 bit
GPU Chipset	Intel® UHD Graphics for 10th gen
Displayport	1 x DP1.4
Speaker	10" 2Wx2	15" & 21" 2Wx2
Ethernet Connector	2 x RJ45
Wake on LAN	Yes
WIFI/Bluetooth	IEEE 802.11a/b/n/ac, WIFI compliant BT 4.0
Storage slot	10" 1xM2.0 for 2280 SSD |15 & 21" 1 x SATA3.0
Camera	2MP
Rear IO USB	4xUSB3.2
Rear IO Audio	1xLine-out, 1xMic-in
Rear IO LAN	2 x (10/100/1000Mbps)

Internal M.2	1 x M.2 to suit 2280SSD
Internal SATA3.0	1
Internal COM	5 x RS232 / 1 x RS485
Internal USB2.0	2 x USB2.0 header
Internal IO	8 x GPIO
Hardware monitor	CPU temp sensor; voltage sensor; watchdog; plug & start

Fully Compatible with Windows 10 64- Bit	Linux provides an ideal environment for developers eager to explore the potential of their devices.	All Wi-Fi Standards from 802.11a to ac for Ultimate Speed and Reliability	Bluetooth 4.0 provides a robust and flexible networking environment

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Integrated Player Specification - i3-1215U

CPU	i3-1215U
P-core max turbo freq	4.4 GHz
E-core max turbo freq	3.3 GHz
Core	6
Thread	8
CPU Cache	10MB
BIOS	AMI UEFI BIOS
RAM	8GB, Dual Ch SO-DIMM DDR4 (Max 64GB)
ROM	256GB M.2 for NVME 2280 SSD
OS	Win 11 64bit. Linux 64 bit
GPU Chipset	Intel Iris® Xe Graphics eligible/UHD depends on CPU
Displayport	N/A
Speaker	10" 2Wx2 | 15" & 21" 2Wx2
Ethernet Connector	2 x RJ45
Wake on LAN	Yes
WIFI/Bluetooth	IEEE 802.11a/b/g/n/ax, WIFI compliant BT 5.0
Storage slot	M2.0 for NVME 2280 SSD
Camera	2MP
Rear IO USB	4xUSB3.2
Rear IO Audio	1xLine-out, 1xMic-in
Rear IO LAN	1 x (1000Mbps) ; 1 x (2500Mbps)

Internal M.2	1 x to suit NVME 2280SSD
Internal SATA3.0	1
Internal COM	6 x RS232 (default) or 5 x RS232+1 x RS485
Internal USB2.0	4 x USB2.0 header
Internal IO	8 x GPIO
Hardware monitor	CPU temp sensor; voltage sensor; watchdog; plug & start

Fully Compatible with Windows 10 64- Bit

Linux provides an ideal environment for developers eager to explore the potential of their devices.

All Wi-Fi Standards from 802.11a to ac for Ultimate Speed and Reliability

Bluetooth 4.0 provides a robust and flexible networking environment

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ULTRON RANGE Industrial high reliability WINDOWS tablets

Integrated Player Specification - i5-1235U

CPU	i5-1235U	Internal M.2	1 x to suit NVME 2280SSD
P-core max turbo freq	4.4 GHz	Internal SATA3.0	1
E-core max turbo freq	3.3 GHz	Internal COM	6 x RS232 (default) or 5 x RS232+1 x RS485
Core	10	Internal USB2.0	4 x USB2.0 header
Thread	12	Internal IO	8 x GPIO
CPU Cache	12MB	Hardware monitor	CPU temp sensor; voltage sensor; watchdog; plug & start
BIOS	AMI UEFI BIOS		
RAM	8GB, Dual Ch SO-DIMM DDR4 (Max 64GB)		
ROM	256GB M.2 for NVME 2280 SSD		
OS	Win 11 64bit. Linux 64 bit		
GPU Chipset	Intel Iris® Xe Graphics eligible/UHD depends on CPU		
Displayport	N/A		
Speaker	10" 2Wx2 | 15" & 21" 2Wx2		
Ethernet Connector	2 x RJ45		
Wake on LAN	Yes		
WIFI/Bluetooth	IEEE 802.11a/b/g/n/ax, WIFI compliant BT 5.0		
Storage slot	M2.0 for NVME 2280 SSD		
Camera	2MP		
Rear IO USB	4xUSB3.2		
Rear IO Audio	1xLine-out, 1xMic-in		
Rear IO LAN	1 x (1000Mbps) ; 1 x (2500Mbps)		

Fully Compatible with Windows 10 64- Bit

Linux provides an ideal environment for developers eager to explore the potential of their devices.

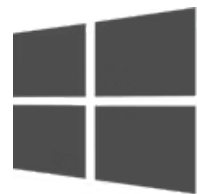All Wi-Fi Standards from 802.11a to ac for Ultimate Speed and Reliability

Bluetooth 4.0 provides a robust and flexible networking environment

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ULT-101-xx-G Industrial high reliability WINDOWS tablet

The **10.1"** ULTRON Touchscreen Computer series is perfectly suited for kiosks and digital signage, providing various processor options. These devices showcase brilliant IPS touch displays and extensive connectivity, guaranteeing dependable performance across numerous uses.
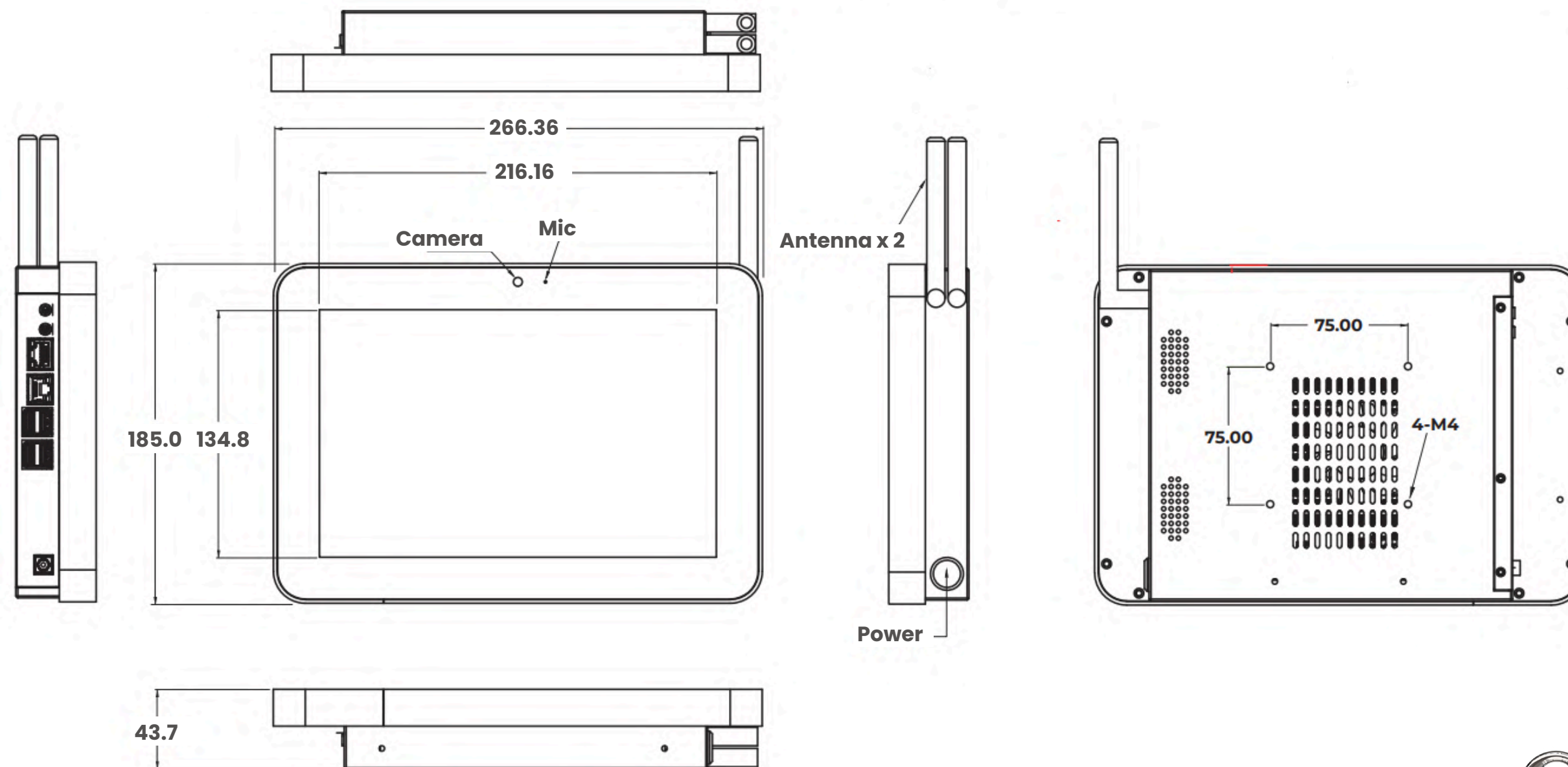
WINDOWS   **LINUX**   **WIFI**   **BLUETOOTH**

266.36

216.16

Camera   Mic

Antenna x 2

185.0   134.8

75.00

75.00   4-M4

Power

43.7

CDS
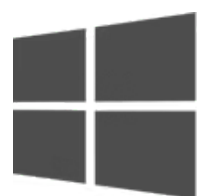Crystal Display Systems Ltd

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ULT-156-xx-G Industrial high reliability WINDOWS tablet

This **15.6"** ULTRON touchscreen computer line is built for demanding use in kiosks and digital signage, offering various processor choices. It features clear IPS touch displays and extensive connectivity, ensuring dependable operation for a wide range of applications.
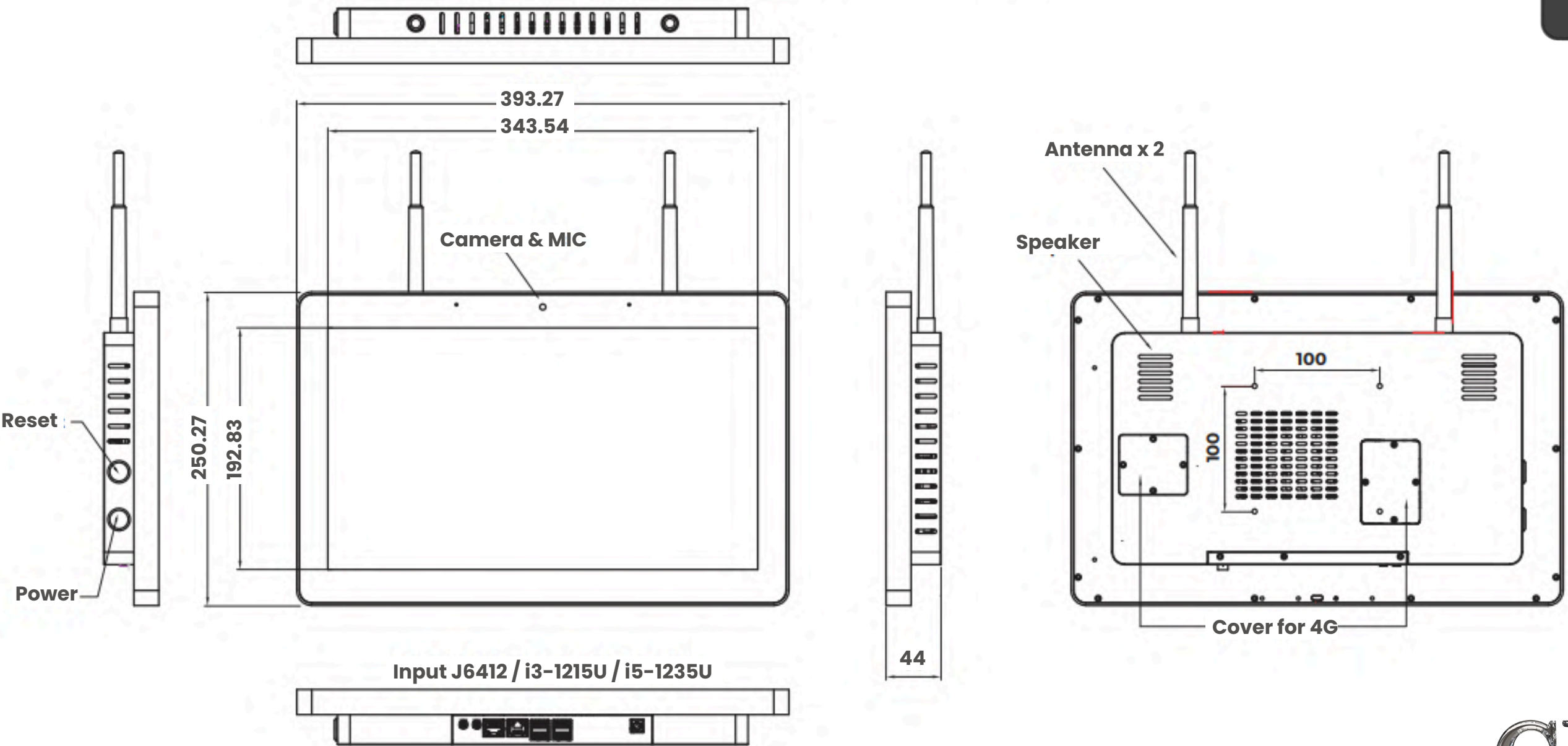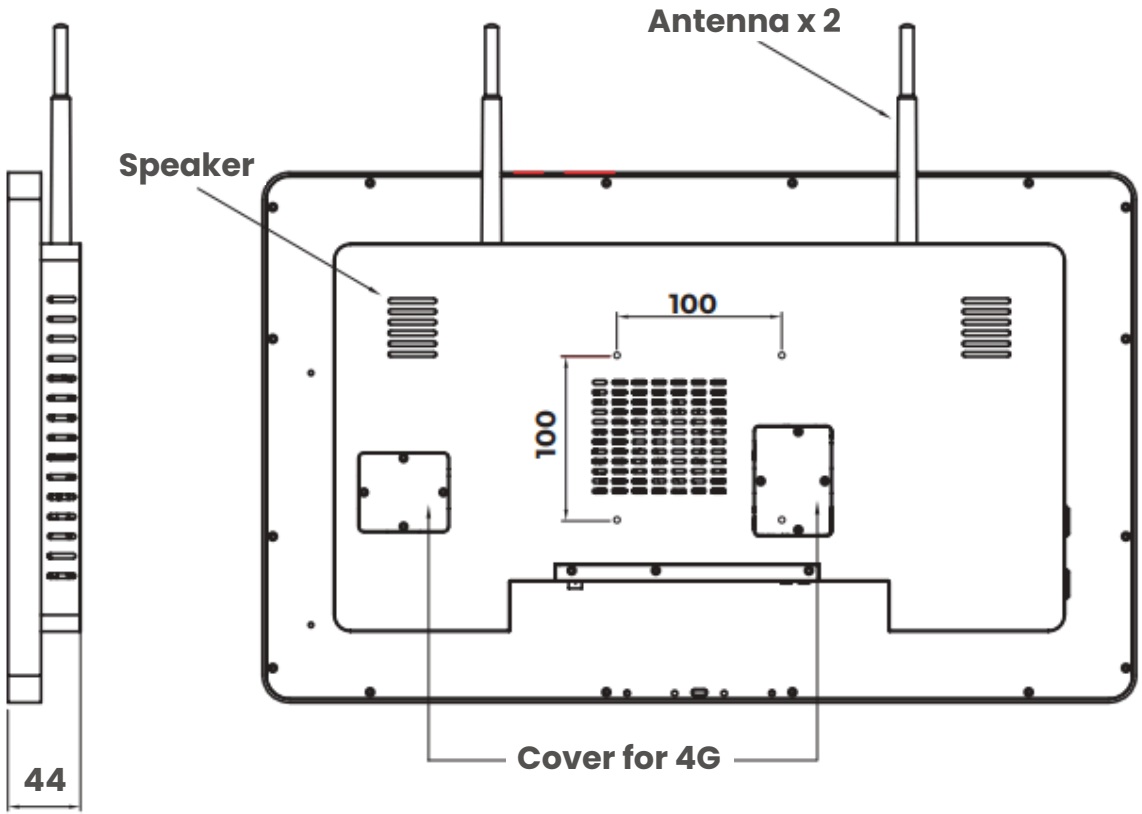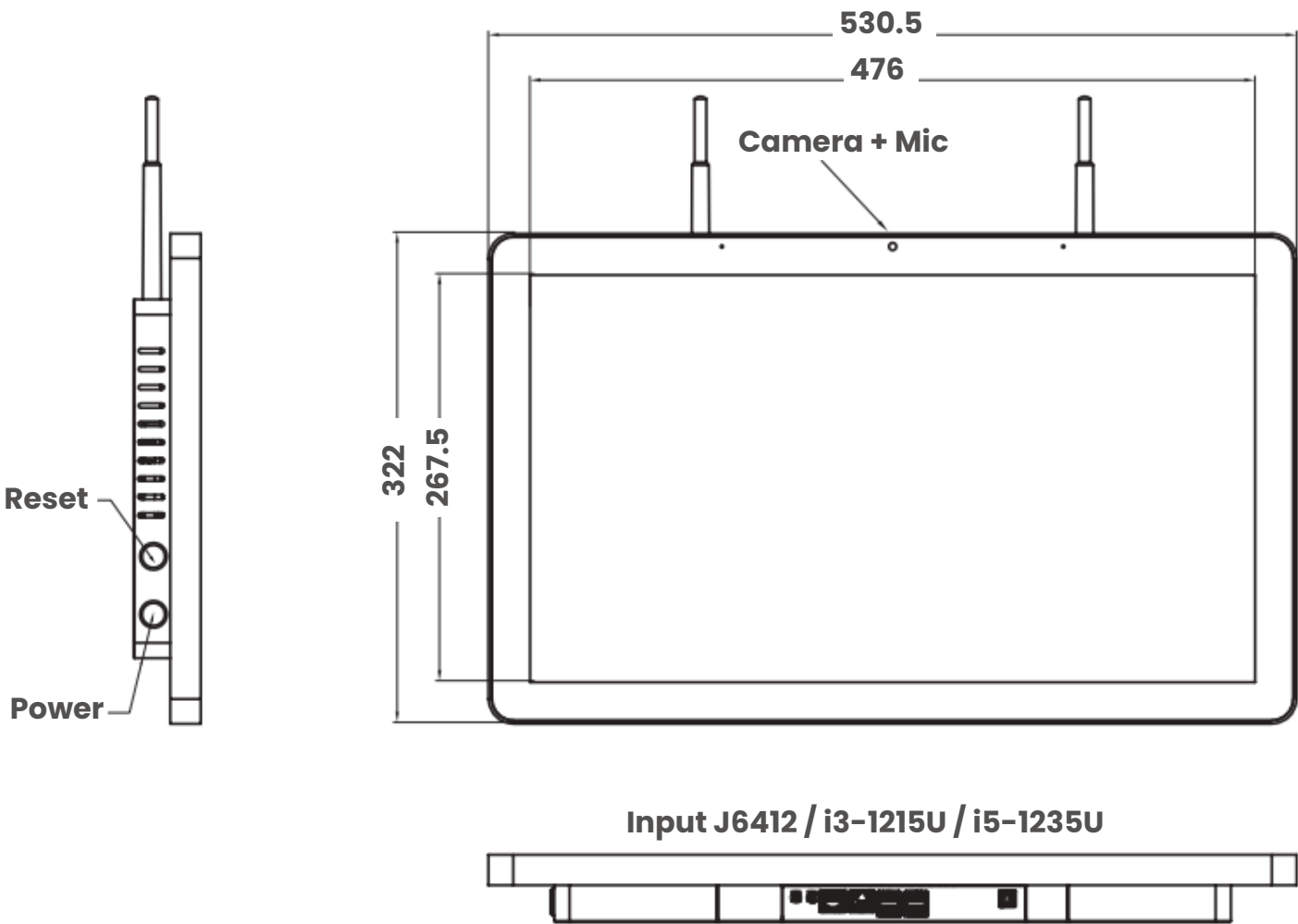
WINDOWS

LINUX

WIFI

BLUETOOTH

393.27

343.54

Camera & MIC

250.27

192.83

Reset

Power

Input J6412 / i3-1215U / i5-1235U

44

Antenna x 2

Speaker

100
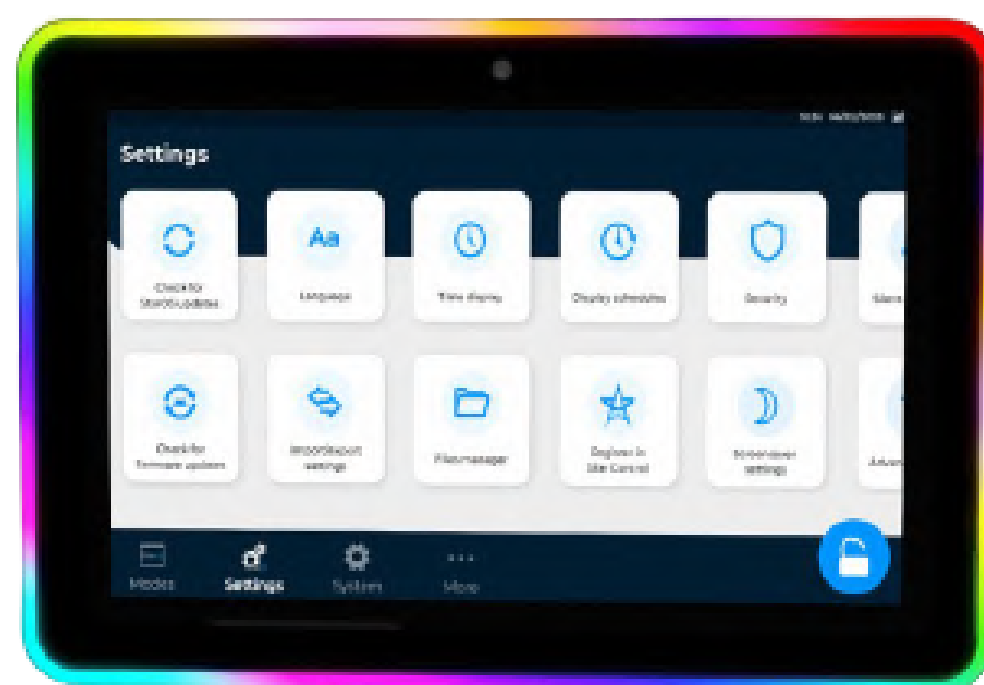
100

Cover for 4G

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ULT-215-xx-G Industrial high reliability WINDOWS tablet

The **21.5"** Diagonal ULTRON Touchscreen Computer series offers versatile processor options and vibrant IPS touch displays. Its robust connectivity makes it ideal for diverse applications like kiosks and digital signage, ensuring reliable performance and engaging user interactions.

WINDOWS

LINUX

WIFI

BLUETOOTH

530.5

476

Camera + Mic

322

267.5

Reset

Power

Input J6412 / i3-1215U / i5-1235U

44

Antenna x 2

Speaker

100

100

Cover for 4G

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Nebula Glow

The 10.1" Android Nebula Glow touchscreen computer offers significant utility in a variety of settings such as casinos, meeting rooms, and the retail industry. The LED HALO bezel gives an eye-catching appearance and can be triggered to show different colours & sequences to indicate different conditions.

Infinitus Signage

32" and 43" Infinitus narrow bezel Touchscreen Signage is suitable for various applications including gaming tables, digital whiteboards, corporate signages and digital menu board. It can also be used in kiosks for various industries such as retails, hotels, transportations and other commercial settings.

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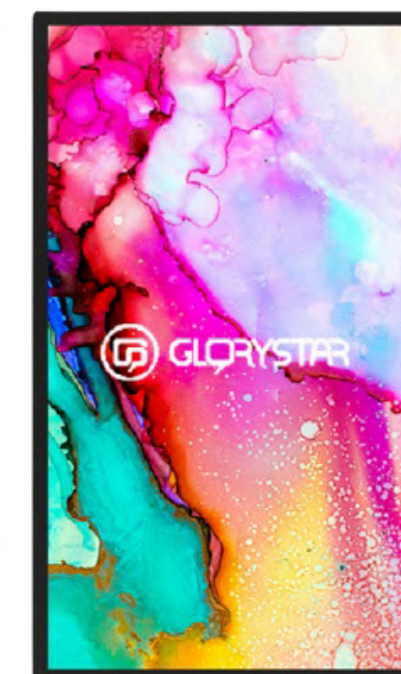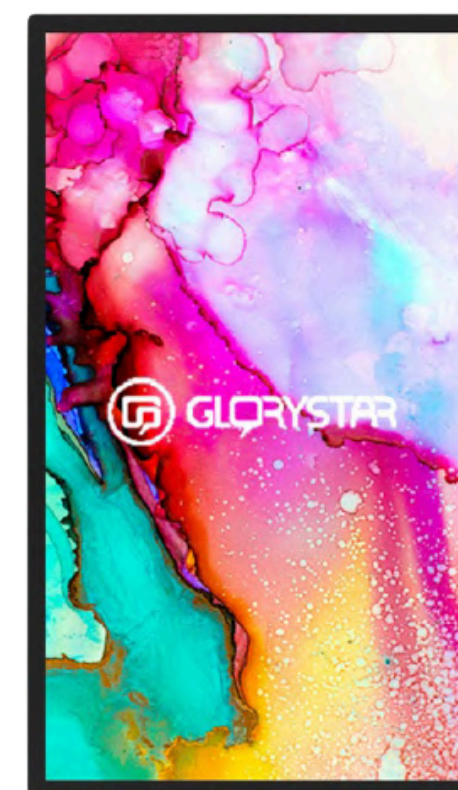
CAPELLA - 37" STRETCHED ANDROID

- Elevate your digital signage with the Capella 37" Stretched LCD Display – a cutting-edge solution designed to captivate.
- Featuring an ultra-wide 32:9 aspect ratio and a sharp 1920x540 resolution, this display delivers a truly immersive visual experience.
- With 700 nits of brightness, it ensures exceptional clarity even in high-ambient light environments.
- Powered by Android 12, the Capella is a versatile and intelligent signage platform ideal for retail, hospitality, transportation hubs, and corporate settings. Whether mounted overhead, integrated into kiosks, or used as dynamic wayfinding, the Capella stands out with its sleek form factor and reliable performance.

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Magnetar - IP65 Front

- Free kiosk lockdown app for Android or Windows OS
- 10.1", 15.6" 21.5" high bright 1000cdm²
- Remote manage with ease.
- Touchscreen Monitor.
- The IP65 rating ensures that the front glass is both dust-tight and water-resistant.
- The touch-on-water feature allows you to activate the touchscreen even when water is spilled on the glass or when using latex gloves.

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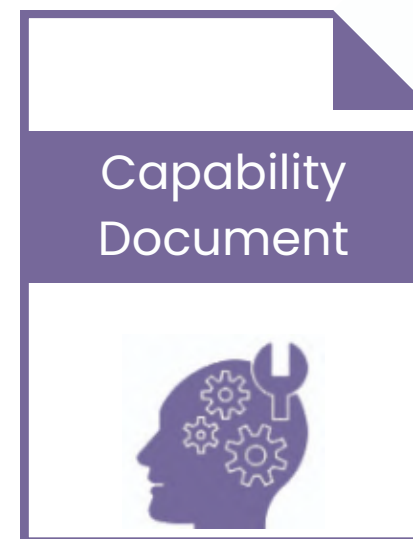
Crystal Display Systems – About us!

The CDS Philosophy of business – Industrial Displays from Crystal Display Systems the leading designer, distributor, value added reseller as well as the developer of custom monitors and customization of flat panel display solutions.

Established over 12 years ago, our expertise allows us to offer the best solutions to our clients and partners. We offer Industrial TFT LCDs, OLEDs embedded AIO, touch screens, and digital signage solutions.

With the CDS philosophy of business we combine the latest industrial and retail displays and technology, engineering and manufacturing capabilities to optimise our integrated solutions.

If you have a requirement for any digital display products then please contact our Technical sales and support team to work closely with you on your specific project and requirements.

DOWNLOAD CENTRE https://crystal-display.com/cds-presentation-download/

Corporate presentation	Capability Document	PCAP+ touch solutions	Optical Bonding capability	Products & solutions	Industrial Panel PC

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Need any additional information?

Our team is always available to help you with pricing details, technical support, or any additional information you may need. Please don't hesitate to reach out.

CONTACT US

Crystal Display Systems Ltd
Unit 6 M2M Park, Fort Bridgewood
Maidstone Road, Rochester,
Kent. ME1 3DQ

T : +44(0) 1634 791600
E : info@crystal-display.com
W : crystal-display.com

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