APC238-13
Waterproof Panel PC



PC Specs

CPU:	Intel® Elkhart Lake SoC Processor, J6412, max.speed up to 2.6GHz, Quad-Core, 10W
Bios:	AMI SPI 256 Mbit
Memory:	2 x SO-DIMM, DDR4 3200MHz, up to 32GB
Storage:	1 x M.2 (Key M) with PCIe x1 for SSD 1 x SATA3 (6Gb/s)
Expansion slots:	1 x M.2 (Key B, 3042/3052) with PCIe x1/USB 3.2 and USB 2.0 and SIM for 4G/5G 1 x M.2 (Key E, 2230) with PCIe x1 and USB 2.0 for Wireless

O/S:	Win11 IoT Enterprise / Win11 Pro
Security:	TPM 2.0 onboard IC
I/O Connectors: *(Standard)*	3 x USB (IP66 M12 conn.) 1 x GigaBit LAN (IP66 M12 conn.) 1 x VGA out (15-way D-type, IP66)
I/O Connectors: *(Optional)*	4 x USB (up to) 2 x Serial RS232/422/485 2 x GigaBit LAN
Second Display:	VGA D-type max. res. up to 1920 x 1200
Optional Wi-Fi:	Single / Dual-band Wi-Fi, 1 or 2 x Antenna

Display

Screen Diagonal:	23.8" (604.70mm) Aspect Ratio 16:9
Resolution:	1920 x 1080 @ 60Hz (Native)*
Pixel Pitch:	0.2745mm x 0.2745mm
Display Area:	527.04mm (H) x 296.46mm (V)
Viewing Angles:	178°(Left/Right) / 178°(Up/Down)
Brightness:	400 cd/m²
Contrast Ratio:	1000:1
Response Time:	14ms (Rising+Falling)
Colours:	16.7M (True 8-bit)

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Touchscreen Options	
With Touchscreen:	Projected Capacitive; 10-Point Multi-Touch
Without Touchscreen	Anti-Glare PolyCarb Screen Overlay
Power / Environment	
Power Supply:	90-265V AC Input (IP66 M12 conn.) 12V/24V/48V DC Input (IP66 M12 conn.) *(Optional)*
Power Consumption:	TBC
Power Settings:	AT: Directly PWR On as power input is ready ATX: Press Button to PWR On after power input ready
Operating Temperature :	0°C to +50°C
Storage Temperature:	-20°C to +60°C
Humidity:	5% to 90% Relative Humidity, non-condensing (with breathable vent)
Physical Attributes	
Dimensions / Weight:	12kg (*approx.*) (For accurate dimensions please contact Sales@nemacom.co.uk)
Housing Material:	Standard: Mild steel - RAL 9005 Black textured paint finish Options: 304/316 Stainless steel | Bespoke paint | Custom sizes | Custom specs.
IP Sealing:	6-Sides sealed to IP66 with Industry Standard M12 Connectors and D-Type Connectors
Options and Extras	
Applications:	Automation | Food Processing | Manufacturing | Pharmaceutical Process Control | Advertising | Digital Signage | Marine
AV Accessories:	Nemacom Ltd are an authorised reseller of high quality Kramer products including, Computer Graphics Video Distribution Amplifiers, Video Switchers, Routers and Cables
Certifications	
Safety & Approvals:	UKCA
Installation	
Mounting Options:	100mm x 100mm VESA Mounting on rear
Warranty & Support	
Warranty:	5 years return to Nemacom
Support:	Full UK Product Lifetime Support

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* A full list of supported video standards is available on request.

** Approx. reading, contact Nemacom Ltd for an accurate figure based on a particular configuration.

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