Modular HMI Solutions

Flexy Vision 15.6 APL

Panel PC with 15.6" LCD display based on the Intel® Atom® X Series and Intel® Celeron® J / N Series (formerly Apollo Lake) Processors

Flexibility Meets Style For Endless Visual Display Applications



HIGHLIGHTS

CPU
Intel® Celeron® / Atom® (Dual / Quad Core processors)

CONNECTIVITY
2x GbE; 2x RS-232 or RS-485 on DB-9 connector; 2x USB 3.0 + 2x USB 2.0 ports

GRAPHICS
50K Hours 1920x1080 LVDS display with projected capacitive touchscreen integrated

MEMORY
Soldered-down LPDDR4 memory, up to 8GB total

Windows 10 Enterprise · Windows 10 IoT Core · Linux · HDMI®

MAIN FIELDS OF APPLICATION

Coffee & Vending · Industrial Automation · Digital Signage

FEATURES

Processor	Intel® Atom® **x5-E3930** Dual Core @1.3 GHz (Burst 1.8GHz), 2MB L2 Cache, 6.5W TDP Intel® Atom® **x5-E3940** Quad Core @1.6 GHz (Burst 1.8GHz), 2MB L2 Cache, 9.5W TDP Intel® Atom® **x7-E3950** Quad Core @1.6 GHz (Burst 2.0GHz), 2MB L2 Cache, 12W TDP Intel® Pentium® **N4200** Quad Core @1.1GHz (Burst 2.5GHz), 2MB L2 Cache, 6W TDP Intel® Celeron® **N3350** Dual Core @1.1GHz (Burst 2.4GHz), 2MB L2 Cache, 6W TDP Intel® Celeron® **J3455** Quad Core @1.5GHz (Burst 2.3GHz), 2MB L2Cache, 10W TDP Intel® Celeron® **J3355** Dual Core @2.0GHz (Burst 2.5GHz), 2MB L2Cache, 10W TD
Memory	Soldered-down LPDDR4 memory Dual/Quad Channel, up to 8GB total, 32-bit interface
Embedded Graphics	Integrated Intel® HD Graphics 500 series controller with up to 18 Execution Units Three Independent displays supported HW decoding of HEVC(H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG formats HW encoding of HEVC(H.265), H.264, MVC, VP8, VP9 and JPEG/MJPEG formats
Video Section	15.6" LVDS display, resolution 1920x1080, LED lifetime 50K hours min., 300cd/m² min. brightness P-Cap (Projected Capacitive touch screen), with 3.0mm glass cover Glass Hardness IK07, Surface Hardness 7H
Video Interfaces	HDMI® Connector DP++ Connector

Mass Storage	eMMC 5.0 drive soldered on-board, up to 64GB M.2 Key B slot for optional SSD drive, up to 512GB
Networking	2x Gigabit Ethernet port M.2 WWAN Connectivity Slot for accessory 4G modules (excludes SSD Drive) M.2 WLAN Connectivity Slot for accessory WiFi/BT module
USB	2x USB 3.0 Host ports on Type-A sockets 2 x USB 2.0 Host ports on Dual Type-A socket
Serial Ports	2x multistandard RS-232 /RS-422/RS-485 ports on DB-9 connectors
Other Interfaces	Power ON Button with integrated LED Optional TPM 2.0 onboard
Power Supply	Main Power: $12V_{DC}$ Power In connectors: DC Power Jack
Operating System	Windows 10 IOT Ubuntu Linux
Operating Temperature*	0°C ÷ 50°C
Dimensions	403,6 x 253 x 58mm

*Measured at any point of the heatspreader/heatsink during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

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Display touch kit specifications

- P-Cap (Projected-Capacitive touch technology) - Glass cover
- Glass Hardness: IK07
- Surface Hardness: 7H
- Thickness: 3.0mm
- Air bonding

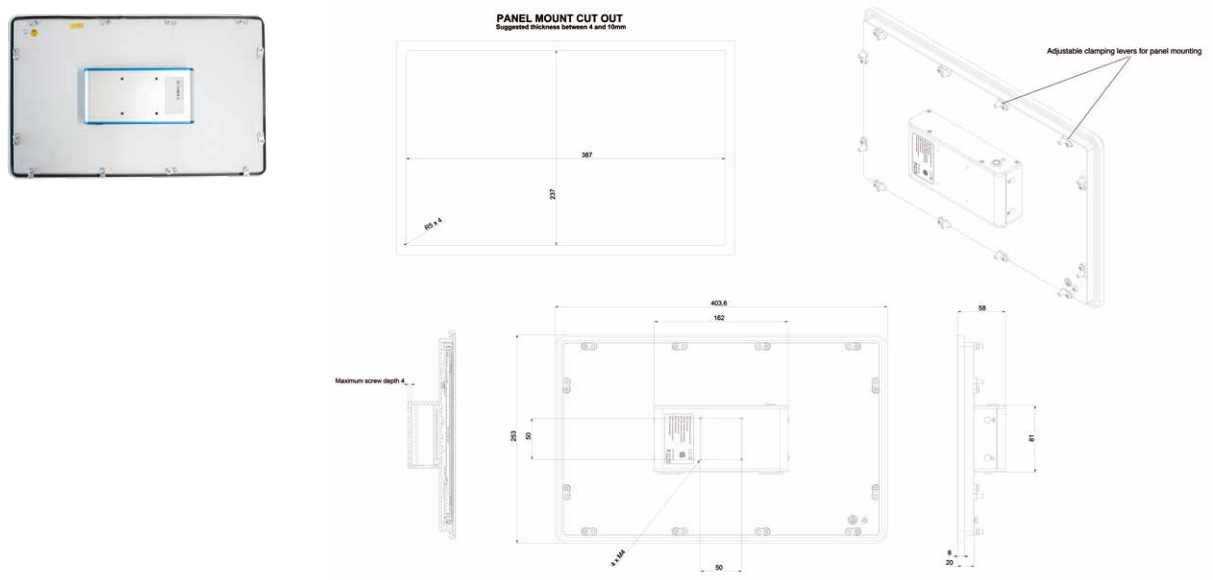
LCD General specifications

Item	Specification
LCD Size	15.6" real diagonal
Resolution	1920x1080
Display Mode	Normally Black
Display colours	16.2M colours
Pixel pitch	0.17925 (H) x 0.17925 (V) mm
Active Area	344.16 x 193.59 mm
Module Size	363.8 (H) x 215.9 (V) x 9.3 (T) mm, typ.
Pixel Arrangement	RGB Vertical Stripe
Surface Treatment	Anti-Glare, Anti Fingerprint
Interface	LVDS
Luminance	300cd/m² (min.), 380cd/m² (Typ.)
Backlight Power Consumption	12W (Typ)
Panel Power Consumption	4W (Typ.)

Optical specifications

Item	Symbol	Condition	Values (degree)		
			Min.	Typ.	Max.
Viewing angle (CR≥ 10)	θ_L	Φ=180° (9 o'clock)	80	85	-
	θ_R	Φ=0° (3 o'clock)	80	85	-
	θ_T	Φ=90° (12 o'clock)	80	85	-
	θ_B	Φ=270° (6 o'clock)	80	85	-

Panel mount/VESA mount*



* all dimension are in mm

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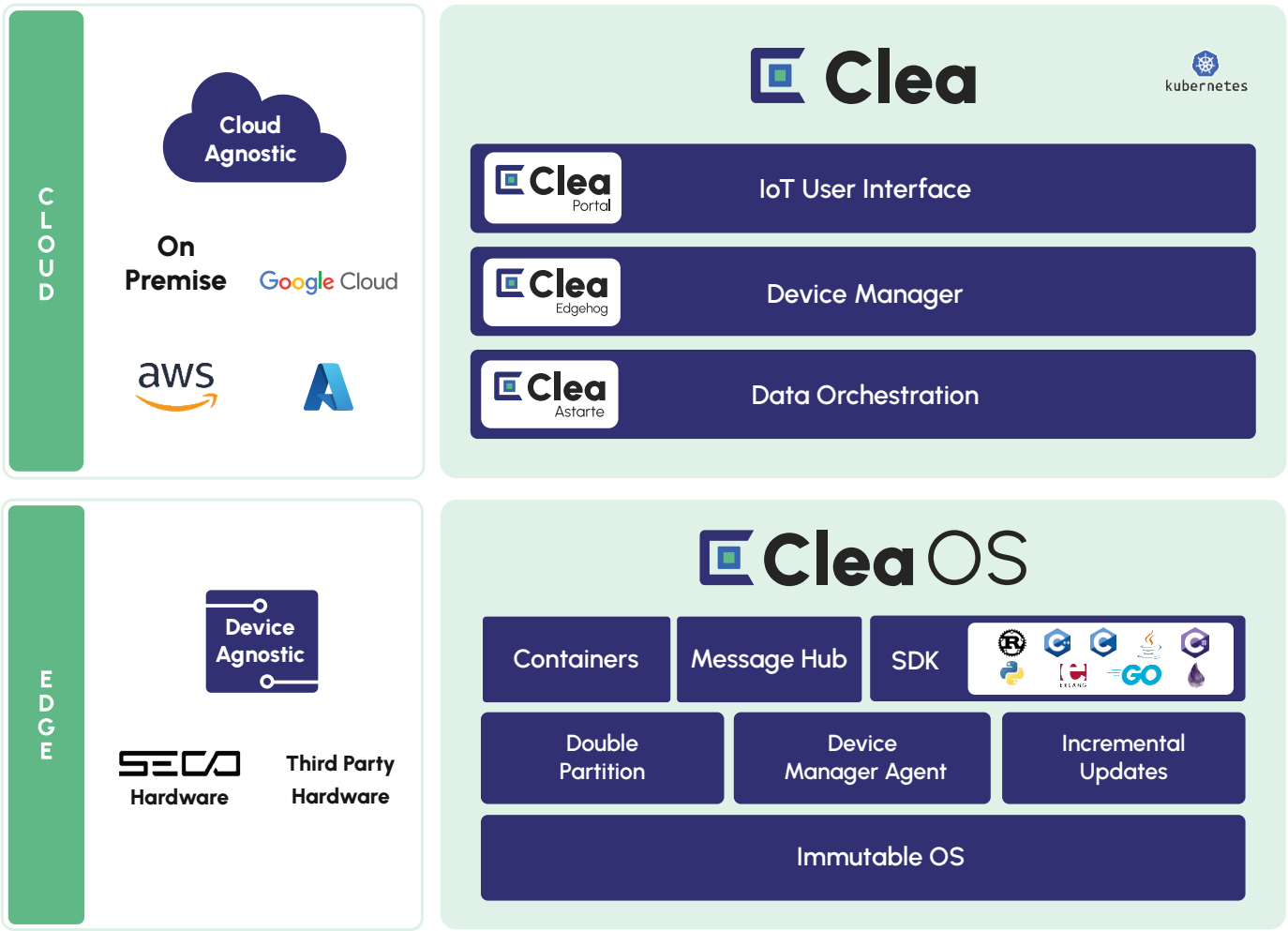
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