Modular HMI Solutions

Flexy Vision 7 APL

Panel PC with 7.0" 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 800x480 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	7.0" LVDS display, resolution 800x480, LED lifetime 50K hours life min, 690cd/m^2 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 Linux
Operating Temperature*	0°C ÷ 50°C
Dimensions	202,1 x 133,9 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

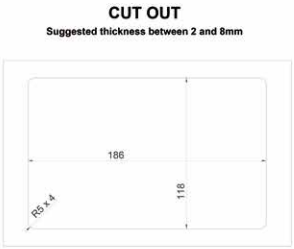
Item	Specification
LCD Size	7.0"
Resolution	800x480
Display Mode	Normally White, Transmissive
Display colours	16.7M colours
Pixel pitch	0.1926 (H) x 0.1790 (V) mm
Active Area	154.08 (H) x 85.92 (V) mm
Module Size	165 (H) x 100 (V) x 8.4 (T) mm, typ.
Pixel Arrangement	RGB Vertical Stripe
Surface Treatment	Anti-Glare, Anti Fingerprint
Interface	LVDS
Luminance	690cd/m² (min.), 770cd/m² (Typ.)
Panel Power Consumption	3.1 (Typ)

Optical specifications

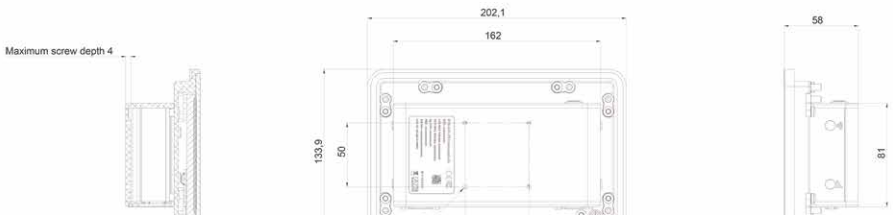
Item	Symbol	Condition	Values (degree)		
			Min.	Typ.	Max.
Viewing angle (CR≥ 10)	θ_L	Φ=180° (9 o'clock)	60	70	-
	θ_R	Φ=0° (3 o'clock)	60	70	-
	θ_T	Φ=90° (12 o'clock)	40	50	-
	θ_B	Φ=270° (6 o'clock)	60	70	-

Panel mount/VESA mount*









* all dimension are in mm

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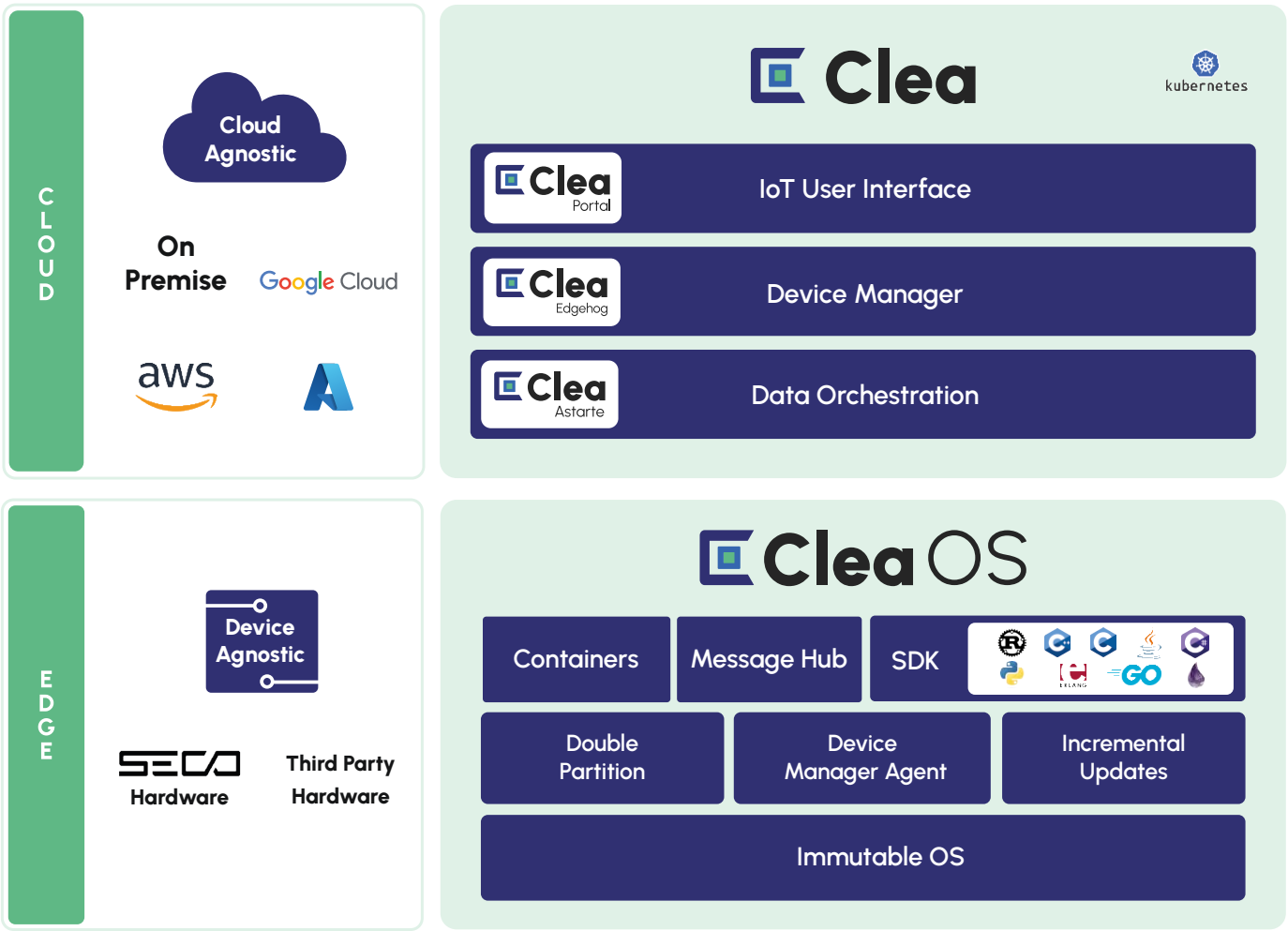
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