

Datasheet

Avalue

EPD-3133

31.2" E-Paper open frame Display with Intel® Celeron® SoC BGA Processor N3350

Open frame: MO-60-068

with SID mode: MO-60-069

with True Flat Glass: MO-60-070

with True Flat Touch: MO-60-071



 APOLLO DISPLAY
TECHNOLOGIES



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UNITED KINGDOM



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EPD-3133

Public Information Display (Digital Signage)



- > 31.2" E Ink Public Display (Monochrome)
- > Onboard Intel® Celeron® SoC BGA Processor N3350 (with CPU Bottom Mounted)
- > Single DRAM Socket, Max. Up to 8GB DDR3L 1866MHz
- > 1 x SATA III / 1 x HDMI 1.4 / 1 x COM / 2 x LAN / 4 x USB3.0
- > +19 DC Voltage Input
- > Operating temp. 0~50 degrees
- > Dual mPCIe Expansion Slot
- > TPM 2.0
- > Open frame design(full flat)
- > Option for Wi-Fi & BT function
- > P-cap touch(optional)
- > Front light module(optional)
- > VESA mount compliant(400 × 200 mm)

+ Spec

-System Information-

Processor	Onboard Intel® Celeron® SoC BGA Processor N3350 (Apollo Lake Platform)- (with CPU Bottom Mounted)
Platform Controller Hub	Intel® Apollo Lake SoC Processor integrated Gen9 LP graphics
System Memory	1 x 204-Pin DDR3L 1866MTs SO-DIMM up to 8GB
I/O Chipset	EC (IT8528VG)
BIOS Information	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Board	ECM-APL2-B
Avalue EC Controller	IT8528VG
Hard Driver Bay	1 x SATA III

Expansion

Expansion	1 x Full size Mini PCIe Supports mSATA 1 x Half size Mini PCIe
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Storage

Storage	1 x 2.5" Drive Bay 1 x mSATA (Shared from mPCIe)
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External I/O

USB Port	4 x USB 3.1 (Gen1 5Gbps)
Video Port	1 x HDMI (1.4b): Max. Resolution 3840 x 2160 @ 30Hz
LAN Port	2 x RJ45 LAN port (1 x Intel® I211AT/1 x Intel® I210IT, 10/100/1000 Base-Tx Gigabit Ethernet Compatible)
Wireless LAN Antenna	2 x Antenna Mounting with Dust Cover(Optional)
Wireless LAN	mPCIe Wi-Fi/Bluetooth module(Optional)

Panel

LCD Size	31.2"
LCD Panel	E Ink ED312TT3
Display Type	E Paper Display
Resolution	H:2560 × V:1440
Pixel pitch	0.27
Contrast ratio	12 (Typ.)
Viewing angle	180(U), 180(D), 180(L), 180(R)
Backlight	Sunlight Readable / No Backlight Required
Touch Type	Projective Capacitive
Touch Screen	P-cap touch(optional)
Touch Interface	USB
Touch Controller	EET-EXC86H80128SCAG

I/O

USB Port	4 x USB 3.1 (Gen1 5Gbps)
Serial	1x DB-9 male connector for COM1 supports RS232/422/485 (selectable by Jumper and BIOS without changing Cable, w/ Auto Flow)
Video	31.2" E Paper Display (E Ink ED312TT3): H:2560 × V:1440 1 x HDMI (1.4b): Max. Resolution 3840 x 2160 @ 30Hz

Display

Graphic Chipset	Intel® Apollo Lake SoC Processor integrated Gen9 LP graphics
Spec. & Resolution	31.2" E Paper Display (E Ink ED312TT3): H:2560 × V:1440 1 x HDMI (1.4b): Max. Resolution 3840 x 2160 @ 30Hz
Multiple Display	EPD + HDMI

Mechanical

Power Connector Type	Lockable DC Jack
Weight	7kg
Color	Black

Audio

Audio Codec	Realtek ALC888S, supports 5.1-CH
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Speaker Output	2 x 2W speaker(optional, need to add AUX-031 Amplifier Board)
Reliability	
EMI Test	CE/FCC Class A
Operating Temperature	0 ~ 50°C (32 ~ 122°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Unit Weight	7kg
Storage Temperature	-20 ~ 60°C (-4 ~ 140°F)
Packaging Vibration Test	
Certifications	
Certification Information	CE/FCC Class A
Ethernet	
LAN Chipset	1 x Intel® I211AT 1 x Intel® I210IT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Power Requirement	
DC Input	DC +19V
DC Input Connector	Lockable DC Jack
Adapter	Input: 100~240Vac/50~60Hz Output: 65W (19V/3.42A)
Power Type	AT/ATX
Mechanical & Environmental	
Operating Temperature	0 ~ 50°C (32 ~ 122°F)
Storage Temperature	-20 ~ 60°C (-4 ~ 140°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (W x L x H)	750 x 445 x 36.7 mm
Weight	7Kgs
Vibration Test	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
Shock Test	With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	ISTA-2A, IEC-60068-2-32 (96.5cm)
VESA	(400 x 200 mm) VESA mount compliant
Power Requirement	DC +19V
Power Mode	AT/ATX
Software Support	
OS Information	Android 8.1(default) / Windows 10 IoT
Ordering Information	
Ordering Information	EPD-3133-OFD-A1R (Open Frame) 31.2" E Ink/N3350/4GRAM/64GSSD/2LAN/4USB/SPK/19V/Landscape/Portrait EPD-3133-SID-A1R (SID mode) 31.2" E Ink/N3350/PMMA/4GRAM/64GSSD/2LAN/4USB/SPK/19V/Landscape/Portrait EPD-3133-TFD-A1R (True Flat Glass) 31.2" E Ink/N3350/Glass/4GRAM/64GSSD/2LAN/4USB/SPK/19V/Landscape/Portrait EPD-3133-TFT-A1R (True Flat Touch) 31.2" E Ink/N3350/Pcap/4GRAM/64GSSD/2LAN/4USB/SPK/19V/Landscape/Portrait

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