



## DreamVision ED31

### Public Information Display (Digital Signage)

- > 31.2" E Ink Public Display (Black and White)
- > Onboard Intel® Celeron® SoC BGA Processor N3350 (with CPU Bottom Mounted)
- > Single DRAM Socket, Max. Up to 8GB DDR3L 1866MHz
- > 1 x SATA III / 2 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	
<b>Processor</b>	Onboard Intel® Celeron® SoC BGA Processor N3350 (Apollo Lake Platform)- (with CPU Bottom Mounted)
<b>System Chipset</b>	Intel® Apollo Lake SoC Processor integrated Gen9 LP graphics
<b>System Memory</b>	1 x 204-Pin DDR3L 1866MTs SO-DIMM up to 8GB
<b>I/O Chip</b>	EC (IT8528VG)
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
<b>Board</b>	ECM-APL2-B
<b>Avalue EC Controller</b>	IT8528VG
<b>Hard Driver Bay</b>	1 x SATA III
<b>Graphics Controller</b>	Intel® Apollo Lake SoC Processor integrated Gen9 LP graphics
Expansion	
<b>Expansion</b>	1 x Full size Mini PCIe Supports mSATA 1 x Half size Mini PCIe
Storage	
<b>Storage</b>	1 x 2.5" Drive Bay 1 x mSATA (Shared from mPCIe)
Panel	
<b>LCD Size</b>	31.2"
<b>LCD Panel</b>	E Ink ED312TT3
<b>Display Type</b>	E Paper Display
<b>Resolution</b>	H:2560 × V:1440
<b>Pixel pitch</b>	0.27
<b>Contrast ratio</b>	12 (Typ.)
<b>Viewing angle</b>	180(U), 180(D), 180(L), 180(R)
<b>Backlight</b>	Sunlight Readable / No Backlight Required
<b>Touch Type</b>	Projective Capacitive
<b>Touch Screen</b>	P-cap touch(optional)
<b>Touch Interface</b>	USB
<b>Touch Controller</b>	EET-EXC86H80128SCAG
External I/O	
<b>USB Port</b>	4 x USB 3.1 (Gen1 5Gbps)
<b>Video Port</b>	2 x HDMI (1.4b): Max. Resolution 3840 x 2160 @ 30Hz
<b>LAN Port</b>	2 x RJ45 LAN port (1 x Intel® I211AT/1 x Intel® I210T, 10/100/1000 Base-Tx Gigabit Ethernet Compatible)
<b>Wireless LAN Antenna</b>	2 x Antenna Mounting with Dust Cover(Optional)
<b>Wireless LAN</b>	mPCIe Wi-Fi/BlueTooth module(Optional)
I/O	
<b>USB</b>	4 x USB 3.1 (Gen1 5Gbps)
<b>Serial</b>	1x DB-9 male connector for COM1 supports RS232/422/485 (selectable by Jumper and BIOS without changing Cable, w/ Auto Flow)
<b>Video</b>	31.2" E Paper Display (E Ink ED312TT3): H:2560 × V:1440 2 x HDMI (1.4b): Max. Resolution 3840 x 2160 @ 30Hz
Display	
<b>Chipset</b>	Intel® Apollo Lake SoC Processor integrated Gen9 LP graphics
<b>Resolution</b>	31.2" E Paper Display (E Ink ED312TT3): H:2560 × V:1440 2 x HDMI (1.4b): Max. Resolution 3840 x 2160 @ 30Hz
<b>Multiple Display</b>	EPD + HDMI
Audio	
<b>Chipset</b>	Realtek ALC892, supports 5.1-CH
<b>Speaker Output</b>	2 x 2W speaker(optional, need to add AUX-031 Amplifier Board)
Ethernet	
<b>Chipset</b>	1 x Intel® I211AT 1 x Intel® I210T



<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45
<b>Mechanical</b>	
<b>Power Connector Type</b>	Lockable DC Jack
<b>Weight</b>	7kg
<b>Color</b>	Black
<b>Reliability</b>	
<b>EMI Test</b>	CE/FCC Class A
<b>Operating Temperature</b>	0 ~ 50°C (32 ~ 122°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Unit Weight</b>	7kg
<b>Storage Temperature</b>	-20 ~ 60°C (-4 ~ 140°F)
<b>Packaging Vibration Test</b>	
<b>Mechanical &amp; Environmental</b>	
<b>VESA</b>	(400 x 200 mm) VESA mount compliant
<b>Power Requirement</b>	DC +19V
<b>Power Type</b>	AT/ATX
<b>Operating Temperature</b>	0 ~ 50°C (32 ~ 122°F)
<b>Storage Temperature</b>	-20 ~ 60°C (-4 ~ 140°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Weight</b>	7Kgs
<b>Dimension (L x W x H)</b>	750 x 445 x 36.7 mm
<b>Vibration Test</b>	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
<b>Shock Test</b>	With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
<b>Drop Test</b>	ISTA-2A, IEC-60068-2-32 (96.5cm)
<b>Certifications</b>	
<b>Certification Information</b>	CE/FCC Class A
<b>Software Support</b>	
<b>OS Information</b>	Android 8.1(default) / Windows 10 IoT
<b>Power Requirement</b>	
<b>Power Connector</b>	Lockable DC Jack
<b>Power Requirement</b>	DC +19V
<b>Power Type</b>	AT/ATX
<b>Adapter</b>	Input: 100~240Vac/50~60Hz Output: 65W (19V/3.42A)

