



Perfect Panel Computers for

AUTOMATION

Innovative HMI Products

Intel® Apollo Lake processor, Fan-Less Design*,
LED Backlight Technology, Full Dimming 100%,
Low Power Consumption, Multi-Power*,
Superior Optical Bonding Option, Multi-
Touch Option*, EN60945 Tested and
Type Approved

* = Check specifications for details

Our cost effective and high quality, all in one Panel computer, fulfil a wide range of requirements in manufacturing and process Automation.

Multi-touch user interfaces can be added easily to all available models. These models have a wide range of mounting options such as in a control cabinet or on a mounting arm.



8.0 inch

8.0 inch

13.3 inch

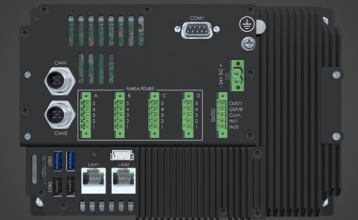
15.6 inch

SPECIFICATIONS

DISPLAY TECHNOLOGY & MECHANICAL



	Response Time & View Angle (typ)	Contrast Ratio (typ) & Light Intensity (typ)	Pixel Pitch (mm)	Active Area (mm)	Power Input & Options	Power Consumption (typ/max) & Inputs	Dimensions (WxHxD) (mm [inch] & Compass Safe Distance (cm [inch]))
8.0" HD 08T30 MMC	20ms (tr+tf) 85° (u/d/l/r)	1000:1 800 cd/m ²	0.138 (H) 0.138 (V)	176.64 (H) 99.36 (V)	Single 12-24VDC Nominal	17W / 50W	228.00 [9.01"] x 156.60 [6.17"] x 65.80 [2.59"] Standard: 60.00 [23.62"] - Steering: 25.00 [9.84"]
8.0" HD 08T30 MMC-T	20ms (tr+tf) 85° (u/d/l/r)	1000:1 800 cd/m ²	0.138 (H) 0.138 (V)	176.64 (H) 99.36 (V)	Single 12-24VDC Nominal	17W / 50W	236.00 [9.29"] x 166.00 [6.54"] x 62.70 [2.47"] Standard: 65.00 [25.59"] - Steering: 25.00 [9.84"]
13.3" HD 13T30 MMC	25ms (tr+tf) 85° (u/d/l/r)	600:1 600 cd/m ²	0.1529 (H) 0.1529 (V)	293.76 (H) 165.24 (V)	Single 12-24VDC Nominal	22W / 50W	355.00 [13.98"] x 248.50 [9.78"] x 69.00 [2.72"] Standard: 60.00 [23.62"] - Steering: 35.00 [13.78"]
15.6" HD 16T30 MMC	35ms (tr+tf) 85° (u/d/l/r)	1500:1 400 cd/m ²	0.17925 (H) 0.17925 (V)	344.16 (H) 193.59 (V)	Multi-Power 100-240V AC - 50/60Hz + 24VDC or Single 100-240V AC - 50/60Hz	Multi-Power: 44W / 75W Single Power: 44W / 125W	397.60 [15.65"] x 279.50 [11.00"] x 94.50 [3.72"] Standard: 60.00 [23.62"] - Steering: 35.00 [13.78"]
Additional Details	Native Resolution & Aspect Ratio: 8.0" = 1280 x 720, 13.3" / 15.6" = 1920 x 1080 (FHD) - 16:9 Max Colors: 16.77M colors (24bit / RGB 8-bit) Operating / Storage Temperature / Humidity / IP Rating: -15°C to +55°C / -20°C to +60°C / Humidity up to 95% / IP66 front - IP20 rear (EN60529). User Controls: Power On/Off, Brightness Control (-/+), Power LED, ECDIS LED (15.6" only), Buzzer (75-85dB), Light Sensor						



8.0" with HD IO-Board

Signal, I/O & Power Ports 8.0" / 13.3"	HD-IO Board: Signal, I/O & Power Ports 8.0" / 13.3"	Signal, I/O & Power Ports 15.6"
2 x USB2.0 (Type A), 2 x USB3.0 (Type A), 2 x GbLAN (RJ45), 1 x 2-pin Terminal Block 5.08 1 x 4-pin, 292254-4 connector for optional fan (8.0" / 13.3")	in addition to standard connectors: 2 x M12, NMEA2000 CAN, Isolated 4 x RS422/RS485, NMEA183 COM, Isolated 1 x 5-pin T. Block 3.81, Digital In+Out, Isolated 1 x RS-232/RS-485/RS-422, DB9M, non-isolated	2 x DisplayPort (DP), 2 x USB2.0 (Type A), 2 x GbLAN (RJ45), 1 x RS-232/422/485 (DB9M), AC: 1 x Std. IEC Inlet, if DC: 1 x 2-pin T.Block 5.08

Factory Options for **8.0"** / **13.3"** - Note: Factory Default is with Projected Capacitive Touch Screen (Multitouch, USB interface), AG Coated Front Glass, Dust Covers and USB Cable Support Bracket
IP22 (EN60529) Model, HD IO-Board Expansion, Optical Bonding Technology, ATEX C1D2 and UL certification

Factory Options for **15.6"**
Projected Capacitive Touch Screen (Multitouch, USB, Pen, Glove support), Optical Bonding Technology, 1 x HT 00235 OPT-A1: 2W Amplified Audio out via DB9F,
1 x Diskbay with support for 2 x 2.5" or One HD USB module installed as: 1 x PCA200828-1: 4xCOM RS-422/485 isolated NMEA 4 channel, 1 x PCA100309-1: Dual Isolated RS-232, connector 2xDB9 or 1 x ZIA0001310-B: CAN isolated 2 channel or 2 x 4 channel, 1 x ZIA0001310-SLCAN (1 x CAN isolated, 2 channel, socketCAN), or 1 x PCA100297-1: Isolated Digital IO module,
4 x OUT/4 x IN or 1 x PCA100298-1: LAN 10/100Mbps, 2 ports RJ45. Frame Grabber Options: HD550N1 SDI M2: 1 x SDI IN / HD550N1 HDV M2: 1 x HDMI IN+1 x VGA IN

Available Accessories (review datasheet for complete details)
For 8.0": Table/Ceiling Bracket, VESA Adapter, External Fan, WallMount Box & USB External Modules. **For 13.3"**: External Fan, Table / Ceiling Mount Bracket, VESA Adapter, UV Sun Cover & USB External Modules. **For 15.6"**: Console Mount Kit, Table / Ceiling Mount Bracket & USB External Modules



13.3" with HD IO-Board

COMPUTER TECHNOLOGY

Supported Operating Systems (OS)	Default Processor / CPU	Default Memory / RAM Installed	Default Storage Device	System / Graphics Chipsets
Windows® 10 IoT Enterprise 2019 LTSC (64bit) (Product Distribution End Date January 2029)	8.0" / 13.3" : Intel® Atom® x5-E3930, 1.30GHz / 1.80GHz, 2M Cache 15.6" : Intel® Atom® x7-E3950, 1.60GHz / 2.00GHz, 2M Cache	2GB DDR3L, SO-DIMM, 1600MHz, Single Channel	32GB eMMC installed	Intel® SOC Intel® HD Graphics 500 / 505
Ethernet GbLAN	BIOS / BUZZER	Speaker / WatchDog Timer	Other Features	
Realtek Gigabit LAN 10/100/1000Mbps Intel® Gigabit LAN 10/100/1000Mbps	AMI BIOS, supports ACPI Yes (according to EN60945)	None Yes (256 segments, 0, 1, 2...255 sec/min)	RTC (0.5s/day*), Battery Alarm, WakeOnLan, Fast Boot, AT mode, USB Boot, TPM2.0, Firmware Raid	
Available Memory / RAM Configurations	Available Storage Device Configurations		Available OS Configurations	
2GB, 4GB, 8GB	1 x 240GB SSD m.2 SATA or 1 x 32GB or 126GB eMMC - (both internal additions)		Linux: (Apollo Lake: Use kernel 4.10 or later)	



15.6" with Modules