Backplane Systems Technology Pty Ltd
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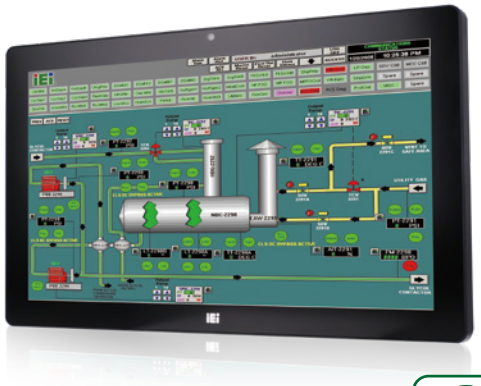
AFL3-W19C-ULT3

Intel® Core™ i5 and Celeron® ULT Processor

AFL3-W19A-AL

Intel® Celeron® / Atom™ Apollo Lake Processor

NEW



Features

- 18.5” light industrial interactive panel PC
- Wide range DC power input
- Selectable AT/ATX power mode
- Built-in speakers
- One mSATA slot
- IP64 compliant front panel
- IEI One Key Recovery solution alllows you to create rapid OS backup and recovery (suggested with over 4GB storage capacity)

Fanless | Bluetooth | Touchscreen | IP64 | Camera | Speakers | One Key Recovery

Specifications

Model		AFL3-W19C-ULT3	AFL3-W19A-AL
LCD	Size	18.5”	18.5”
	Resolution	1366 x 768 (16:9)	1366 x 768 (16:9)
	Brightness (cd/m²)	250	250
	Contrast Ratio	1000:1	1000:1
	LCD Color	16.7M	262K
	Pixel Pitch (mm)	0.240 (H) x 0.240 (V)	0.240 (H) x 0.240 (V)
	Viewing Angle (H-V)	170º/160º	170º/160º
	Backlight MTBF(hrs)	30,000 (LED backlight panel)	30,000 (LED backlight panel)
Touch	Touch Screen	Projected capacitive with USB interface (anti-UV / anti-glare coating)	
	Touch Controller	EETI EXC3180	EETI EXC3188
Motherboard	CPU	Intel® Core™ i5 and Celeron® ULT Processor	Intel® Celeron® J3455 (quad core, 1.5GHz up to 2.3 GHz)
	RAM	Two 260-pin 2133/1867 MHz dual-channel DDR4 SO-DIMMs (system max. 32 GB)	One 204-pin 1600/1333 MHz single-channel DDR3L SO-DIMM, 4GB pre-installed (system max. 8GB)
	Ethernet	2 x Intel® I211-AT PCIe GbE controller	2 x PCIe GbE by Intel® i211 controller
	Audio Codec	ALC892	ALC269
Storage		1 x mSATA (E-Window) 1 x 2.5” SATA 3Gb/s HDD bay 1 x M.2 M key PCIe (2280 or 22110)	1 x mSATA (E-Window) 1 x 2.5” SATA 3Gb/s HDD bay
I/O Ports & Switch		1 x RS-232 by DB-9 (RI/5V/12V) 1 x RS-232/422/485 by DB-9 (RI/5V/12V) 2 x GbE LAN 4 x USB 3.1 Gen 1 (5Gb/s) 1 x HDMI output 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x 9V ~ 30V lockable power jack	1 x RS-232/422/485 by RJ-45 1 x RS-232 by RJ-45 2 x GbE LAN 2 x USB 3.1 Gen 1 (5Gb/s) 2 x USB 2.0 1 x HDMI output 1 x 12V ~ 34V DC Jack 1 x Power switch 1 x AT/ATX switch 1 x Line out
E-Window Expansion		Yes, optional (full-size mini-PCIe slot with PCIe/SATA/USB)	
Audio		AMP 3W + 3W (internal speaker)	
Camera and Microphone		2-megapixel with low light function, digital microphone	2-megapixel with low light function, digital microphone
Wireless & Bluetooth		IEEE 802.11 a/b/g/n/ac, Bluetooth V4.1 M.2 slot A+E key 2230 slot (PCIe/USB signal)	
OSD Function		Software OSD	
Physical	Front Panel Construction	PC + ABS Plastic	PC + ABS Plastic
	Mounting	Panel, Wall, Stand and Arm VESA 75mm x 75mm / 100mm x 100mm	Panel, Wall, Stand and Arm VESA 100mm x 100mm
	Color	Black C	Black C
	Dimensions (W x H x D) (mm)	470 x 290 x 70	470 x 280 x 60
	Cut-out Dimensions (W x H) (mm)	443 x 261	418 x 230
	Net/Gross Weight (kgs)	7.3/10	6.3/9
Environment	Operating Temperature (Ambient with air flow)	-20ºC ~ 50ºC	-15ºC ~ 50ºC
	Storage Temperature	-20ºC ~ 60ºC	
	Humidity	10% to 95% (non-condensing)	
	IP Level	IP 64 compliant front panel	
	Safety & EMC	CE / FCC	
	Thermal Solution	Fanless	
Power	Power Requirement	9V ~ 30V DC	12V ~ 34V DC
	Power Consumption	12V@7.1A (Intel® Core™ i5-6300U CPU with 4GB DDR4 2133 MHz DDR4 memory)	12V@3.2A (Intel® Celeron J3455 CPU with 4GB DDR3L 1866 MHz DDR3L memory)

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Ordering Information

Part No.	Description
AFL3-W19C-ULT3-C/PC/4G-R10	Wide 18.5" 250 cd/m² 1366 x 768 Panel PC with withIntel® 14nm 6th Generation Mobile Celeron® 3955U (15W) on-board Processor (ULT), 1*4GB DDR4 RAM, 802.11a/b/g/n/ac WiFi module, PCAP touch, 2 M camera, microphone, R10
AFL3-W19C-ULT3-i5/PC/4G-R10	Wide 18.5" 250 cd/m² 1366 x 768 Panel PC with Intel® 14nm 6th Generation Mobile Core™ i5-6300U (15W) on-board Processor (ULT), 1*4GB DDR4 RAM, 802.11a/b/g/n/ac WiFi module, PCAP touch, 2 M camera, microphone, R10
AFL3-W19A-AL-J2/PC/4G-R10	Wide 18.5" 250 cd/m² 1366 x 768 Panel PC with with Intel® Celeron® Processor J3455 (10W) on-board Processor (Apollo lake), 1*4GB DDR3L RAM, 802.11a/b/g/n/ac WiFi module, PCAP touch, 2 M camera, microphone, R10

Options

Item	AFL3-W19C-ULT3	AFL3-W19A-AL
Panel Mounting Kit	AFL3PK-W19C-R10	
Wall Mounting Kit	AFLWK-19B	
Arm	ARM-11-RS/ARM-31-RS	
Stand	STAND-A21-R10/ STAND-210-R11/STAND-A19-RS/STAND-C19-R10	
Magnetic Card Reader	AFL3P-W10MSR-U-R10	
Barcode Scanner	AFL3-2D-R11	
RFID Reader (13.56 MHz Mifare Type) (For ATO assembly)	AFL3-MF-RFID-KIT02-R10	
*OS: Win 7 Embedded (64-bit)	AFL3-W15C-ULT3-WES7P64-R10	N/A
*OS: Win 10 IOT Enterprise (64-bit)	AFL3-W15C-ULT3-W10E64-V-R10	AFL3-W19A-AL-W10E64-E-R10

*OS image with CD-ROM without storage

E-Window (for ATO assembly)

Part No.	Description
E-MPCIE-LAN02-R10	PCIe Mini card supports 1-port GbE with Realtek RTL8111E controller, with PMS 194C I/O bracket and 340 mm cable, R10
E-MPCIE-CClink02-R10	PCIe Mini card supports CC-Link Slave interface according to V2.0 and V1.1, with PMS black C I/O bracket and 300mm cable, R10
E-MPCIE-PROFIBUS02-R10	PCIe Mini card supports universal PROFI BUS DP card for Master or Slave, with PMS black C I/O bracket and 300mm cable, R10
E-MPCIE-EtherCAT-R10	PCIe Mini card supports universal for all Real-Time Ethernet protocols, with PMS black C I/O bracket and 280mm cable, R10
E-MPCIE-3G-R10	PCIe Mini card supports 3G WWAN, with PMS 130C I/O bracket, RF antenna 300mm cable and GSM antenna cable, R10

Packing List

Item	Part No.	Q'ty	Remark
Round head machine screw	44403-040061-RS	4	M2*4 round head machine screw
Pan head machine screw	44003-030052-RS	4	M4*6 pan head machine screw
Power cord	32702-000200-100-RS	1	
Power adapter	63040-010096-100-RS (AFL3-W19C-ULT3) 63040-010060-120-RS (AFL3-W19A-AL)	1	96W; Vin: 90V~264V AC; Vout: 12VDC 60W; Vin: 90V~264V AC; Vout: 12VDC
RJ-45 to DB-9 COM port transfer cable	32005-004600-100-RS (AFL3-W19A-AL)	1	300mm, 26AWG, (A) D-SUB 9 male, (B) RJ-45

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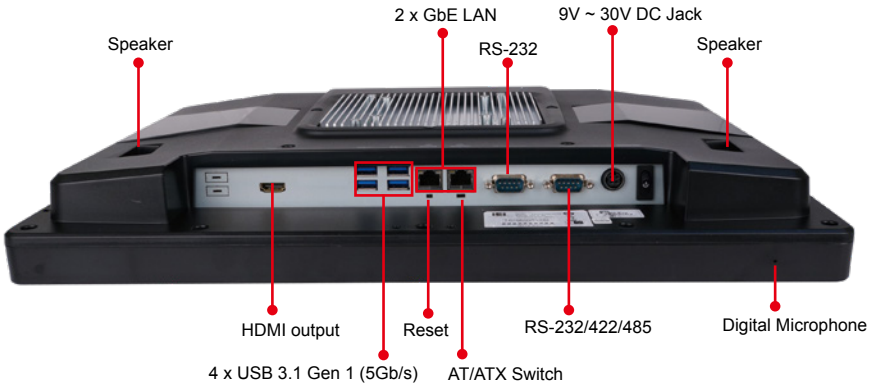
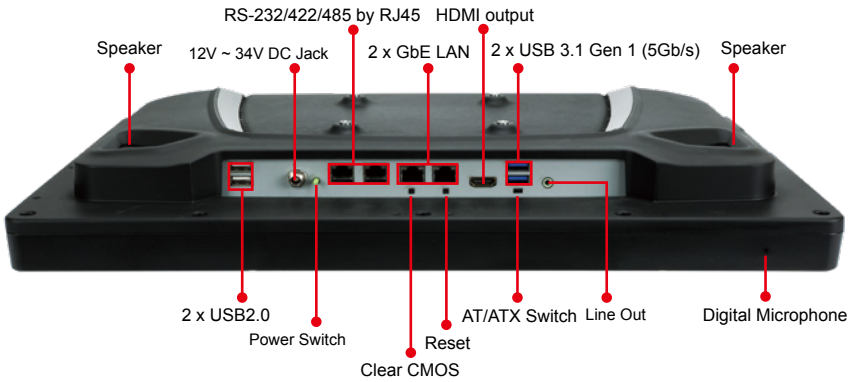
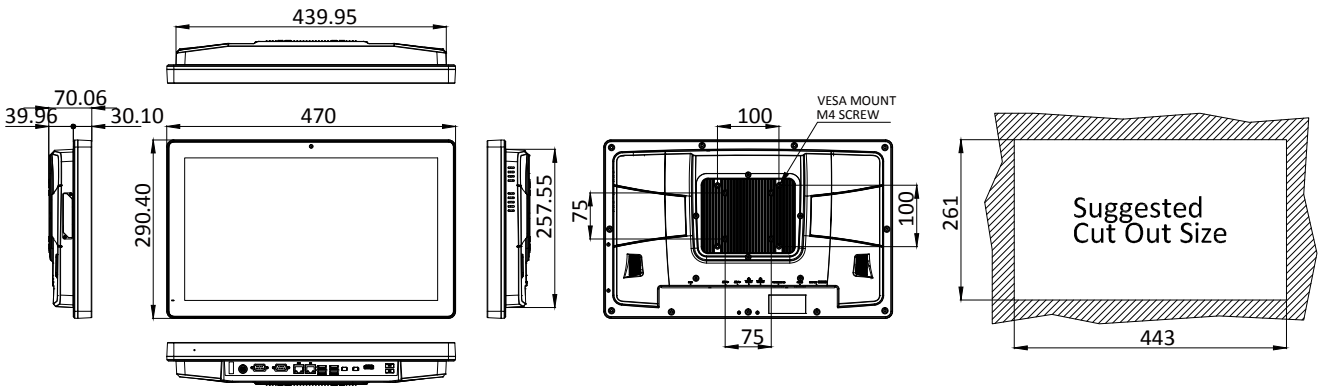
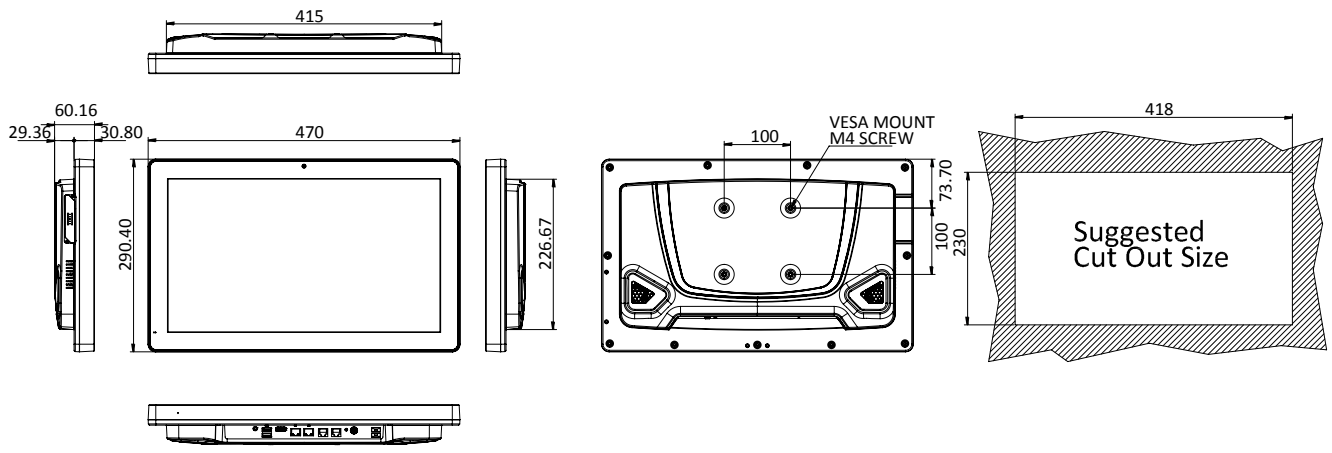
Fully Integrated I/O



AFL3-W19A-AL
Fully Integrated I/O



AFL3-W19C-ULT3 Dimensions (Unit: mm)



AFL3-W19A-AL Dimensions (Unit: mm)