

AFL3-W15A-BT

Intel® Celeron® J1900 (Quad Core, 2.0 GHz)

AFL3-W15C-ULT3

Intel® Core™ i5 and Celeron® ULT Processor



Features

- W15" light industrial interactive panel PC
- 9 V ~ 30 V 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 allwows you to create rapid OS backup and recovery (suggested with over 4GB storage capacity)



Specifications

Model		AFL3-W15A-BT	AFL3-W15C-ULT3
LCD	Size	15.6"	
	Resolution	1366 x 768 (16:9)	
	Brightness (cd/m²)	400	
	Contrast Ratio	500:1	
	LCD Color	16.2M	
	Pixel Pitch (mm)	0.240 (H) x 0.240 (V)	
	Viewing Angle (H-V)	170° / 160°	
	Backlight MTBF(hrs)	50000 (LED backlight)	
Touch	Touch Screen	5-wire resistive with RS-232 interface (anti-glare coating), Projected capacitive with USB interface (anti-UV / anti-glare coating)	Projected capacitive with USB interface (anti-UV / anti-glare coating)
	Touch Controller	PenMount DMC9000 / EETI EXC3188	PenMount DMC9000 / EETI EXC3188
Motherboard	CPU / Chipset	Intel® Celeron® J1900 (quad core, 2 GHz)	6th Generation Intel® Core™ i5 and Celeron® on-board processor
	RAM	One 204-pin 1333 MHz single-channel DDR3L SO-DIMM, 2GB pre-installed (system max. 8GB)	Two 260-pin 2133/1867 MHz dual-channel DDR4 SO-DIMMs (system max. 32 GB)
	Ethernet	2 x PCIe GbE by RTL8111HN-CG controller	2 x Intel® I211 PCIe GbE controller
	Audio Codec	ALC888S	
Storage		1 x mSATA (E-Window) 1 x 2.5" SATA 3Gb/s HDD bay	1 x mSATA (E-Window) 1 x 2.5" SATA 3Gb/s HDD bay 1 x M.2 M key PCIe (2280 or 22110 PCIe signa)
I/O Ports & Switch		1 x RS-232 COM port (RJ-45 connector) 1 x RS-232/422/485 COM port (DB-9 connector) (RI/5V/12V) 2 x USB 2.0 2 x USB 3.2 Gen 1 (5Gb/s) 2 x GbE LAN 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Audio port (line-out) 1 x 9-30V lockable power jack	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 3.2 Gen 1 (5Gb/s) 1 x HDMI output 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x 9-30V lockable power jack
E-Window Expansion		Yes, optional(full-size mini-PCIe slot with PCIe or SATA / USB signal)	Yes, optional (full-size mini-PCIe slot with PCIe or SATA / USB signal)
Audio		AMP 3W + 3W (internal speakers)	
Camera and Microphone		2-megapixel with low light function, digital microphone	
Wireless & Bluetooth		IEEE 802.11 a/b/g/n/ac half-size mini-PCIe slot (PCIe signal)	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	
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 75mm x 75mm / 100mm x 100mm	
	Color	Black C	
	Dimensions (WxHxD) (mm)	396 x 250 x 53	396 x 250 x 64
	Cut-out Dimensions (WxH) (mm)	273 x 226	369 x 226
	Net/Gross Weight (kgs)	3.3/5.6	4.5/6.5
Environment	Operating Temperature (°C) (Ambient with air flow)	-20°C~50°C	-20°C~50°C
	Storage Temperature (°C)	-20°C~60°C	
	Humidity	10% to 95% (non-condensing)	
	IP Level	IP 64 compliant front panel	
	Safety & EMC	CE / FCC	
	Thermal Solution	Fanless	Fanless
Power	Power Requirement	9 V ~ 30 V	
	Power Consumption	12V@4.16A (Intel® J1900 CPU with 2GB 1333 MHz DDR3 memory)	12V@6A (Intel® Core™ i5-6300U CPU with 4GB DDR4 2133 MHz DDR4 memory)

Ordering Information

● Intel® Celeron® Platform

Part No.	Description
AFL3-W15A-BT-J1/PC/2G-R15	Wide 15.6" 400 cd/m² 1366 x 768 fanless panel PC with Intel® Celeron® J1900 quad core 2 GHz, 802.11a/b/g/n/ac, projected capacitive touch screen, 2GB DDR3L RAM, 2-megapixel camera, microphone, R15
AFL3-W15A-BT-J1/R/2G-R15	Wide 15.6" 400 cd/m² 1366 x 768 fanless panel PC with Intel® Celeron® J1900 quad core 2 GHz, 802.11a/b/g/n/ac, resistive touch window, 2GB DDR3L RAM, 2-megapixel camera, microphone, R15
AFL3-W15A-BT-J1/PC/4G-R15	Wide 15.6" 400 cd/m² 1366x768 fanless panel PC with Intel® Celeron® J1900 quad core 2 GHz, 802.11a/b/g/n/ac wireless module, projected capacitive touch screen, 4GB DDR3L RAM , with AG, R15
AFL3-W15A-BT-J1/R/4G-R15	Wide 15.6" 400 cd/m² 1366x768 fanless panel PC with Intel® Celeron® J1900 quad core 2 GHz, 802.11a/b/g/n/ac wireless module, resistive touch window, 4GB DDR3L RAM , with AG, R15

● Intel® Skylake ULT3 Platform

Part No.	Description
AFL3-W15C-ULT3-C/PC/4G-R14	Wide 15.6" 400 cd/m² 1366 x 768 Panel PC with Intel® 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, 2M camera, microphone,with AG, R14
AFL3-W15C-ULT3-i5/PC/4G-R14	Wide 15.6" 400 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, 2M camera, microphone , with AG, R14

Packing List

Item	Part No.	Q'ty	Remark
Round head machine screw	44003-020041-RS (W15A-BT/15B-H81)	4	M2*4 round head machine screw
Pan head machine screw	44403-040061-RS	4	M4*6 pan head machine screw
Fix holder	46003-009500-RS	2	
Power adapter	63040-010060-120-RS (W15A-BT)	1	60W; Vin: 90V~264V AC; Vout: 12VDC
	63040-010096-100-RS	1	96W; Vin: 90V~264V AC; Vout: 12VDC
RJ-45 to DB-9 COM port transfer cable	32005-004600-100-RS(W15A-BT)	1	300mm, 26AWG, (A) D-SUB 9 male, (B) RJ-45

Options

Item	AFL3-W15A-BT	AFL3-W15C-ULT3
Panel Mounting Kit	AFL3PK-W15A-R10	AFL3PK-W15A-R10
Wall Mounting Kit	AFLWK-19B	
Rack Mounting Kit	AFL3RK-W15A-R11	AFL3RK-W15B-R10
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**	AFL3-MF-RFID-KIT02-R10
*OS: Win 7 Embedded (64-bit)	AFL3-W07A-BT-WES7P64-R12 (for PCAP touch) AFL3-W07A-BT-WES7E64-R12 (for resistive touch)	AFL3-W15C-ULT3-WES7P64-R10 (for PCAP touch) AFL3-W15C-ULT3-WES7E64-R10 (for resistive touch)
*OS: Win 8 Embedded (64-bit)	AFL3-W07A-BT-WE8S64-R10	N/A
*OS: Win 10 IoT Enterprise (64-bit)	AFL3-W07A-BT-W10E64-E-R12	AFL3-W15C-ULT3-W10E64-V-R10

**RFID is supported after AFL3-xxA-BT R11 version
*OS image with CD-ROM without storage

● E-Window (for ATO assembly)

Part No.	Description	Supported Model
E-MPCIE-LAN-R10	PCIe Mini card supports 1-port GbE with Realtek RTL8111HN-CG controller, with PMS 194C I/O bracket and 250mm cable, R10	AFL3-W15A-BT-J1/PC/2G-R14*
E-MPCIE-DLAN-R10	PCIe Mini card supports 2-port GbE with Intel I211 controller, with PMS 194C I/O bracket and 250mm cable, R10	AFL3-W15A-BT-J1/R/2G-R14*
E-MPCIE-3G-R10	PCIe Mini card supports 3G WWAN module , with PMS 130C I/O bracket, RF antenna 300mm cable and GSM antenna cable, R10	AFL3-W15C-ULT3-C/PC/4G-R14 AFL3-W15C-ULT3-i5/PC/4G-R14

*Installation E-MPCIE-LAN-R10 & E-MPCIE-DLAN-R10 after remove AFL3-USBHUB-R10

E-Window



E-MPCIE-CAN-R10



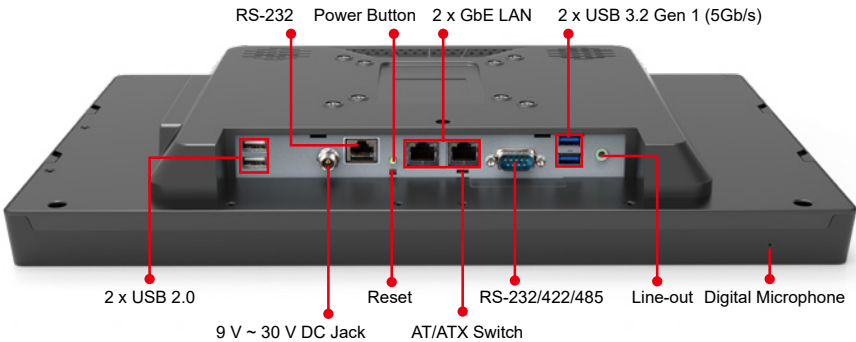
E-MPCIE-DLAN-R10



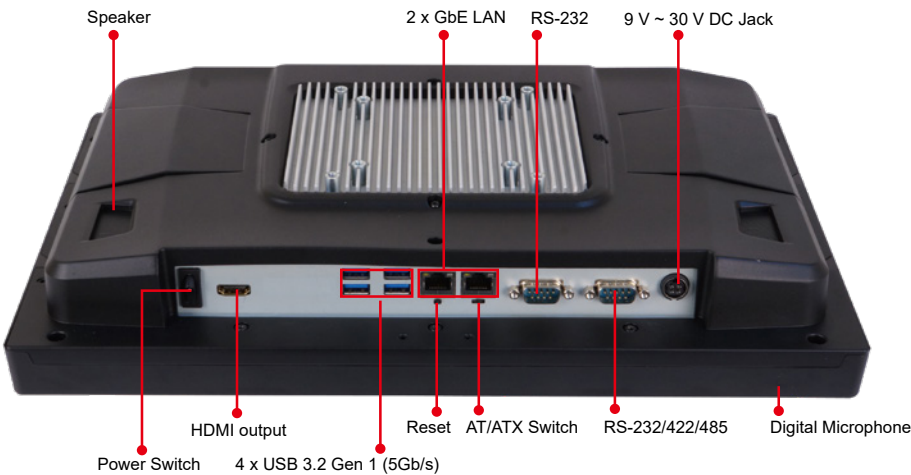
E-MPCIE-3G-R10



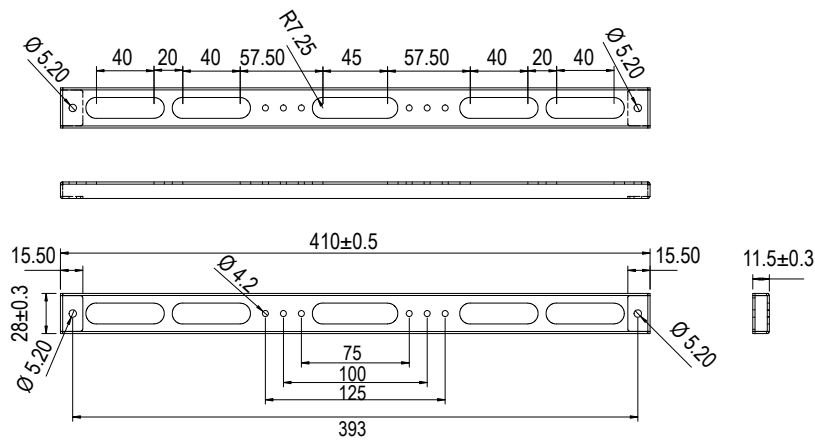
AFL3-W15A-BT
Fully Integrated I/O



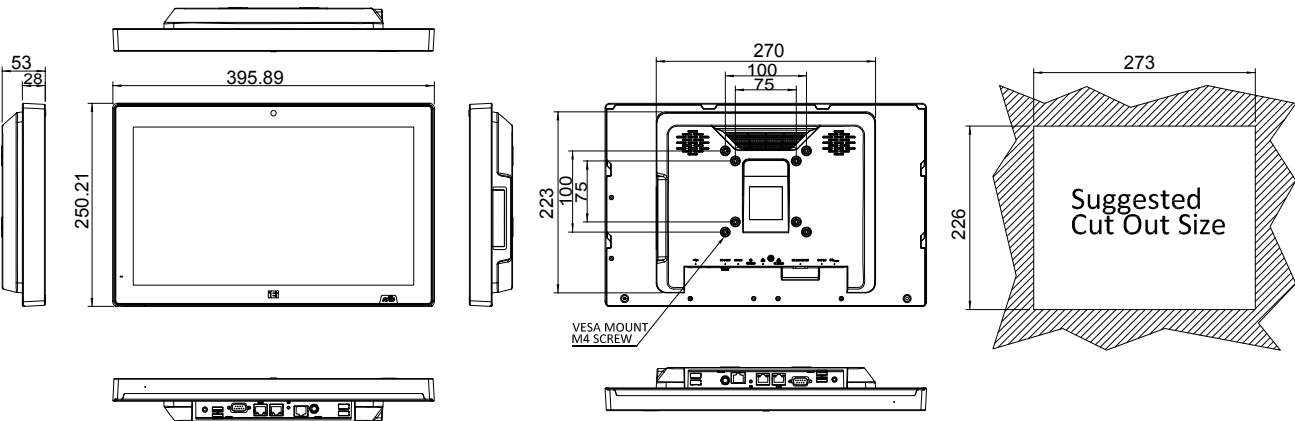
AFL3-W15C-ULT3
Fully Integrated I/O



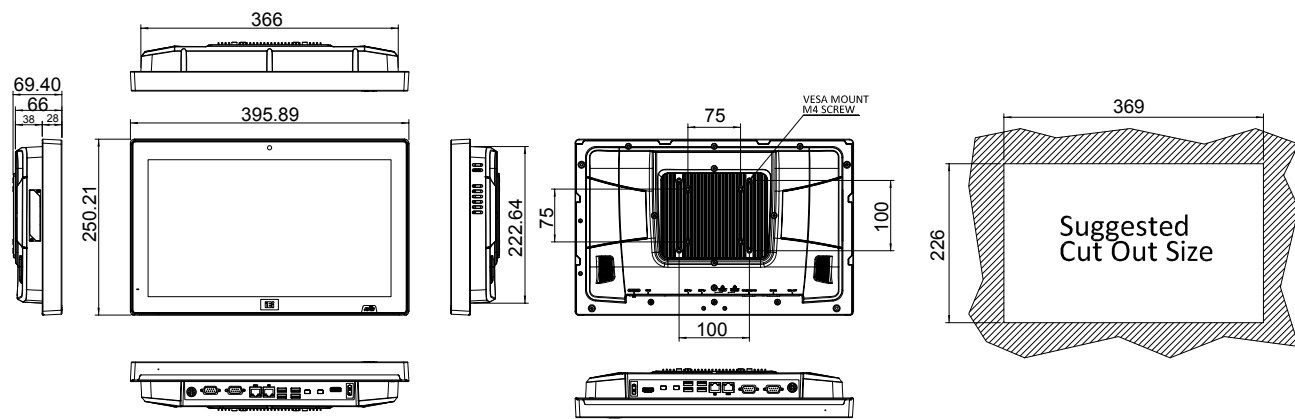
AFL3PK-W15A-R10
Panel Mounting Kit Dimensions (Unit: mm)



AFL3-W15A-BT Dimensions (Unit: mm)



AFL3-W15C-ULT3 Dimensions (Unit: mm)



AFL3-W15A-BT/W15C-ULT3-2021-V10

