

AFL3-W10A-BT

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

AFL3-12A-BT

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

**Features**

- W10"~12.1" light industrial interactive panel PC
- Wide range DC input with lockable DC jack
- Selectable AT/ATX power mode
- Built-in speakers
- One mSATA slot
- IP64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (suggested with over 4GB storage capacity)

**Specifications**

Model		AFL3-W10A-BT	AFL3-12A-BT
LCD	Size	10.1"	12.1"
	Resolution	1280 x 800 (16:10)	1024 x 768 (4:3)
	Brightness (cd/m²)	350	500
	Contrast Ratio	800:1	700:1
	LCD Color	16.2M	16.2M
	Pixel Pitch (mm)	0.1695 (H)×0.1695 (V)	0.240 (H) x 0.240 (V)
	Viewing Angle (H-V)	170° / 170°	160° / 140°
	Backlight MTBF(hrs)	15000 hrs	50000 hrs
Touch	Touch Screen	Projected capacitive with USB interface (anti-UV / anti-glare coating)	5-wire resistive with RS-232 interface (anti-glare coating) Projected capacitive with USB interface (anti-UV / anti-glare coating)
	Touch Controller	EETI EXC3146	PenMount DMC9000/ EETI EXC3146
Motherboard	CPU	Intel® Celeron® J1900 (quad core, 2.0 GHz)	Intel® Celeron® J1900 (quad core, 2.0 GHz)
	RAM	One 204-pin 2 GB 1333MHz single-channel, 2GB DDR3L SO-DIMM pre-installed (system max. 8GB)	One 204-pin 2 GB 1333MHz single-channel, 2GB DDR3L SO-DIMM pre-installed (system max. 8GB)
	Ethernet	2 x PCIe GbE by RTL8111HN-CG controller	2 x PCIe GbE by RTL8111HN-CG controller
	Audio Codec	Realtek ALC 888S	
Storage		1 x mSATA	1 x mSATA 1 x 2.5" SATA 3Gb/s HDD bay
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 3.2 Gen 1 (5Gb/s) 2 x USB 2.0 2 x RJ-45 for GbE LAN 1 x Power Button 1 x Audio port (line-out) 1 x Reset button 1 x AT/ATX switch 1 x 9-30V DC lockable power jack	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 3.2 Gen 1 (5Gb/s) 2 x USB 2.0 2 x RJ-45 for GbE LAN 1 x Power Button 1 x Audio port (line-out) 1 x Reset button 1 x AT/ATX switch 1 x 9-30V lockable power jack
Audio		AMP 2W + 2W (internal speaker)	AMP 3W + 3W (internal speaker)
Camera and Microphone		2-megapixel with low light function, digital microphone	
Wireless		IEEE 802.11 a/b/g/n/ac / Bluetooth 4.2 half-size mini-PCIe slot (PCIe / USB signal)	IEEE 802.11 a/b/g/n/ac half-size mini-PCIe slot (PCIe signal)
OSD Function		Software OSD	
Physical	Front Panel Construction	PC + ABS Plastic	
	Mounting	Panel, Wall, Stand, Arm VESA 75mm x 75mm	Panel, Wall, Rack, Stand and Arm VESA 75mm x 75mm / 100mm x 100mm
	Color	Black C	
	Dimensions (WxHxD) (mm)	262 x 181 x 42	304 x 243 x 44
	Cut-out Dimensions (WxH) (mm)	236 x 149	243 x 205
	Net/Gross Weight (kgs)	1.06/2.58	1.92/3.95
Environment	Operating Temperature (Ambient with air flow)	-10°C ~ 50°C	-20°C ~ 50°C
	Storage Temperature	-20°C ~ 60°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	
Power	Power Requirement	9 V ~ 30 V DC	
	Power Consumption	12V@2.3A (Intel® J1900 CPU with 2GB 1333 MHz DDR3L memory)	12V@3.58A (Intel® J1900 CPU with 2GB 1333 MHz DDR3L memory)

Ordering Information

Part No.	Description
AFL3-W10A-BT-J1/PC/2G-R14	10.1" 350cd/m ² 1280x800 fanless panel PC with Intel® Celeron® J1900 quad core 2 GHz, 802.11 a/b/g/n/ac wireless module, projected capacitive touch screen, 2GB DDR3L RAM, with AG, 2-megapixel camera, microphone, R14
AFL3-12A-BT-J1/PC/2G-R16	12.1" 500 cd/m ² XGA fanless panel PC with Intel® Celeron® J1900 quad core 2 GHz, 802.11a/b/g/n/ac wireless module, projected capacitive touch screen, 2GB DDR3L RAM, with AG, 2-megapixel camera, microphone, R16
AFL3-12A-BT-J1/R/2G-R17	12.1" 500 cd/m ² XGA fanless panel PC with Intel® Celeron® J1900 quad core 2 GHz, 802.11a/b/g/n/ac wireless module, resistive touch screen, 2GB DDR3L RAM, with AG, 2-megapixel camera, microphone, R17
AFL3-12A-BT-J1/PC/4G-R16	12.1" 500 cd/m ² XGA 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, R16
AFL3-12A-BT-J1/R/4G-R17	12.1" 500 cd/m ² XGA fanless panel PC with Intel® Celeron® J1900 quad core 2 GHz, 802.11a/b/g/n/ac wireless module, resistive touch screen, 4GB DDR3L RAM, with AG, R17

Options

Item	AFL3-W10A-BT	AFL3-12A-BT
Panel Mounting Kit	AFL3PK-08A-R10	
Wall Mounting Kit	AFLWK-12	AFLWK-19B
Rack Mounting Kit	AFL3RK-W10A-R10	-
Arm	ARM-11-RS/ARM-31-RS	
Stand	STAND-A21-R10/STAND-210-R11/STAND-C12-R10	
V-Stand	VSTAND-A10-R11	VSTAND-A12-R11
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-WES7P64-R12* (for PCAP touch) AFL3-W07A-BT-WES7E64-R12* (for Resistive touch)
*OS: Win 10 IOT Enterprise	AFL3-W07A-BT-W10E64-E-R12	

**RFID is supported from AFL3-xxA-BT R11 version

*OS image with CD-ROM without storage

Packing List

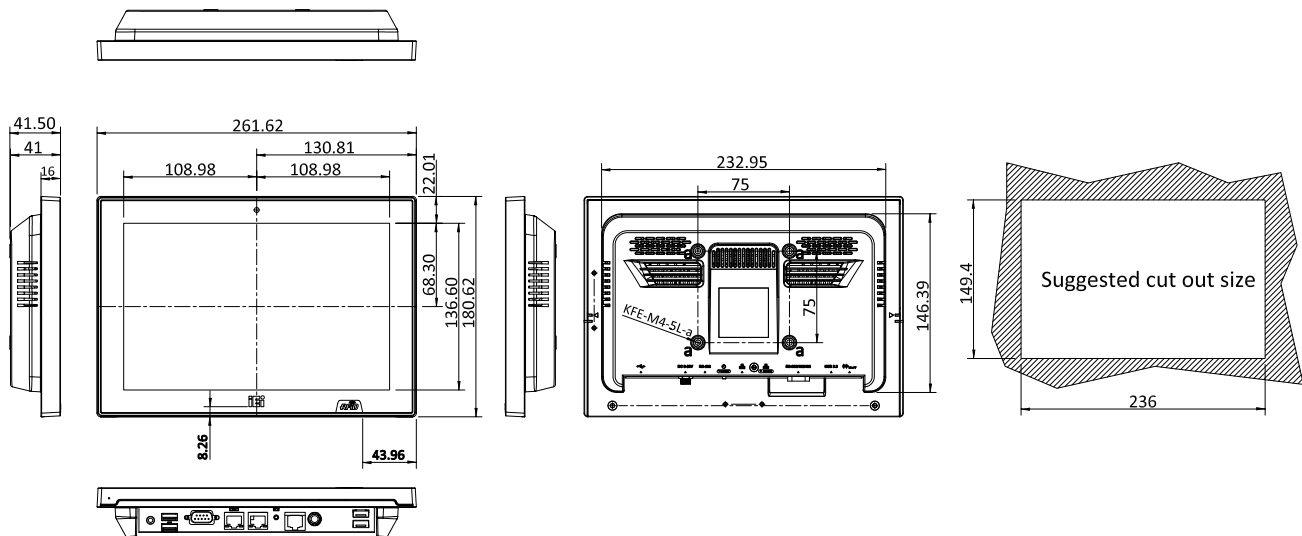
Item	Part No.	Q'ty	Remark
Round head machine screw	44003-020041-RS (12A-BT)	2	M2*4 round head machine screw
Pan head machine screw	44403-040061-RS	4	M4*6 pan head machine screw
Fix holder	46003-009500-RS	2	
Power adapter	63040-010036-210-RS (AFL3-W10A-BT) 63040-010060-211-RS (AFL3-12A-BT)	1	36W; Vin: 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	1	300mm, 26AWG, (A) D-SUB 9 male, (B) RJ-45

The image shows the rear panel of the RS-232/422/485 module. The panel is black with a silver-colored port area. The following components are labeled with red lines pointing to them:

- Power Button**: Located at the top center of the panel.
- RS-232**: Points to the RS-232 port on the left side of the port area.
- 2 x GbE LAN**: Points to the two RJ45 ports in the center of the port area.
- RS-232/422/485**: Points to the DB9 connector on the right side of the port area.
- 2 x USB 3.2 Gen 1 (5Gb/s)**: Points to the two USB Type-A ports on the far right of the port area.
- 2 x USB 2.0**: Points to the two USB Type-A ports on the far left of the port area.
- 9V ~ 30V DC Jack**: Points to the DC power input jack on the left side of the port area.
- Reset**: Points to the small circular reset button located below the RS-232 port.
- AT/ATX Switch**: Points to the small circular switch located below the LAN ports.
- Line-out**: Points to the 3.5mm audio output jack on the right side of the port area.
- Digital Microphone**: Points to the 3.5mm digital microphone input jack on the far right of the port area.

Diagram illustrating the rear view of the device, showing various ports and buttons:

- Power Button
- RS-232
- 2 x GbE LAN
- 2 x USB 3.2 Gen 1 (5Gb/s)
- 2 x USB 2.0
- 9V ~ 30V DC Jack
- Reset
- AT/ATX Switch
- Line-out
- Digital Microphone

AFL3-W10A-BT Dimensions (Unit: mm)**AFL3-12A-BT Dimensions (Unit: mm)**