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***Display System***

***Features***

Intel® Core™ i5 and Celeron® ULT Processor

Intel® Celeron® / Atom™ Apollo Lake Processor

AFL3-W19A-AL

AFL3-W19C-ULT3

* 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)

# *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 bay1 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 LAN4 x USB 3.1 Gen 1 (5Gb/s) 1 x HDMI output1 x Power switch 1 x Reset button 1 x AT/ATX switch1 x 9V ~ 30V lockable power jack | 1 x RS-232/422/485 by RJ-451. x RS-232 by RJ-45
2. x GbE LAN

2 x USB 3.1 Gen 1 (5Gb/s)2 x USB 2.01 x HDMI output1 x 12V ~ 34V DC Jack 1 x Power switch1 x AT/ATX switch1 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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***Display System***

***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 adapter | 63040-010096-100-RS (AFL3-W19C-ULT3)63040-010060-120-RS (AFL3-W19A-AL) | 1 | 96W; Vin: 90V~264V AC; Vout: 12VDC60W; 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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***Display System***

Speaker

2 x GbE LAN

RS-232

9V ~ 30V DC Jack

Speaker

# *AFL3-W19C-ULT3*

***Fully Integrated I/O***

HDMI output

Reset

RS-232/422/485

Digital Microphone

4 x USB 3.1 Gen 1 (5Gb/s) AT/ATX Switch

1 x RS-232/422/485 by RJ-45 HDMI output

Speaker

12V ~ 34V DC Jack

2 x GbE LAN

2 x USB 3.1 Gen 1 (5Gb/s)

Speaker

# *AFL3-W19A-AL*

***Fully Integrated I/O***

2 x USB2.0

Power Switch

Clear

CMOS

AT/ATX Switch

Line Out

Digital Microphone

1 x RS-232 by RJ-45 Reset

418

VESA MOUNT

100 M4 SCREW

470

60.16

29.36 30.80

***AFL3-W19A-AL Dimensions (Unit: mm)***

415

443

75

VESA MOUNT

100 M4 SCREW

470

70.06

39.96 30.10

***AFL3-W19C-ULT3 Dimensions (Unit: mm)***

439.95

290.40

290.40

257.55

75

226.67

100

261

100

230

73.70