

HSXA0U-19SC-SIEX

19" Panel PC with Intel® Celeron® N2930 Quad-core Processor
IECEx/ATEX Zone 2 and UL/C-UL Class I, Division 2 Certifications



Introduction

AIS offers 19" modular panel PCs and touch screen operator interfaces with international certifications and approvals for operation and monitoring in hazardous areas. AIS 19" HMI panel PCs are constructed with completely sealed stainless steel type 4/4X, IP 65/66, NEMA 4/4X enclosure with environmental ratings (UL 50 or IEC 529) on the entire system including fully sealed I/O ports. The 19" touch panel computer supports wide operating temperatures from -20 to +60°C, comes with pre-installed Windows 10 IoT Enterprise (LTSB), Windows 7 or Linux operating system, and is powered by energy-efficient (7.5W TDP) Intel® Celeron® N2930 quad-core processor. AIS offers OSHA's NEC Class I Division 2 (C1D2 or Class I Div 2), Groups A, B, C, D, CENELEC's ATEX 94/9/EC Zone 2, IEC's IECEx Zone 2, Ex nA and Ex ic certification on its Hazardous Locations (Hazlocs) panel PCs and open HMI platforms which are primarily designed for the volatile and harsh environments of oil, gas, chemicals, and oilfield equipment and services.

Specifications

| Display | |
|---------------------------------------|---|
| Size in Inches / Resolution in Pixels | 19" / SXGA, 1280 x 1024 |
| Brightness / Luminance | 350 nits / 350 cd/m² |
| MTBF of Backlight | LED Backlight up to 50,000 Hours |
| Touchscreen | Projective Capacitive Touch |
| System Hardware | |
| Processor | Intel® Celeron® Bay Trail-M N2930, 2 MB Cache up to 2.16 GHz, 7.5 W Maximum TDP |
| Cores / Speed | 4 / 1.83 GHz |
| Memory | On Board 8 GB DDR3L |
| Graphics / Video | Intel® HD Graphics |
| Drives | |
| Mass Storage | 1 x 128 GB 2.5" SATA SSD |
| Secondary Storage | 1 x 64 GB mini PCIe mSATA SSD |
| Optional Drives | Connection via USB Port |
| Interface Ports | |
| Ethernet | 2 x M12 8-pin Ethernet TCP/IP - RJ45 |
| USB | 1 x M12 8-pin for 2 x USB 2.0 |
| Serial | 1 x M12 8-pin COM 1 (RS-232/422/485, Default RS-232) |
| Graphic | 1 x M12 12-pin VGA |

Features and Benefits

- International Approvals for Use Directly in Hazardous Areas
- Modular Designs for Field-replaceable Displays and Box PCs
- Dedicated Disaster Recovery Drive for Reduced Downtime
- Wide Operating Temperature Range from -20 °C to +60 °C
- IP66 Front, IP65 I/Os, IP66 Protective Stainless-steel Enclosure
- Fanless Designs for Maintenance-free, 24-hour Operation
- 19" 1280 x 1024 SXGA, Projected Capacitive Touch (PCT/PCAP)
- Intel® Celeron® Processor N2930, 2M Cache, up to 2.16 GHz
- 8 GB RAM, 128 GB 2.5" SSD, 64 GB mSATA SSD, 24 VDC Input
- 2 x LAN, 2 x USB, 1 x RS232/422/485, 1 x VGA, M12 Connectors
- Windows 10 IoT Enterprise LTSB or Linux Operating System
- IECEx/ATEX Zone 2 and UL/C-UL Class I, Division 2 Certifications

| General Features | |
|--|---|
| Operation Systems | Windows 7 Professional Embedded Windows 10 IOT Enterprise |
| Current Supply | 1 x M12 3-pin 9-36 V DC |
| Bezel / Housing | 316 Stainless Steel Chassis |
| Mounting Options | VESA 100 x 100 / Panel Mount |
| Environment / Ambient Conditions | |
| Degree of Protection | Front IP66 / NEMA 4X, Rear: IP / NEMA 4 |
| Vibration during Operation | IEC60068-2-64 Compliance: 5 - 500 Hz: 1 Grm |
| Shock during Operation | IEC60068-2-27 Compliance: 15 gn for 11 ms |
| Operation Temperature | -20 ~ 60°C (-4 ~ 140°F) |
| Storage Temperature | -30 ~ 70°C (-22 ~ 158°F) |
| Relative Humidity | 10 to 90% (Non- Condensing) |
| Compliance Assessments | |
| US/UL, CAN/CSA | ANSI/ISA-12.12.01-2017, CAN/CSA C22.2 NO. 213-17 UL/CSA 60079-0, UL/CSA 60079-11, UL/CSA 60079-15 |
| Directive 94/9/EC | EN 60079-0:2012/A11:2013, EN 60079-11:2012, EN 60079-15:2010 |
| IECEx | IEC 60079-0:2011 Ed. 6, IEC 60079-11:2011 Ed. 6, IEC 60079-15:2010 Ed. 4 |
| Approvals & Certifications | |
| United States UL Listed to Safety Standards | Class I, Division 2, Groups A, B, C, D T4 Class I Zone 2, IIC, T4 UL 61010-1 |
| Canada CAN/CSA Listed to Safety Standards | Class I, Division 2, Groups A, B, C, D T4 Class I, Zone 2, IIC, T4 CAN/CSA-C22.2 NO. 61010-1-12 (R2017) |
| Europe CE Ex Marked to Safety Standards | ATEX II 3 G, Ex nA ic IIC Gc ATEX Zone 2 Category 3 Gas |
| Dimensions | |
| Operator Panel / Cut-out | 438 x 356.6 mm (W x H) |
| Installation Dimensions | 470 x 388.6 x 75 mm (W x H x D) |
| Product Weight | 11 / 24.3 (kg / lb) |
| Contractual Warranty | |
| Period | 12 months |

American Industrial System Standard HMI Panel IEX

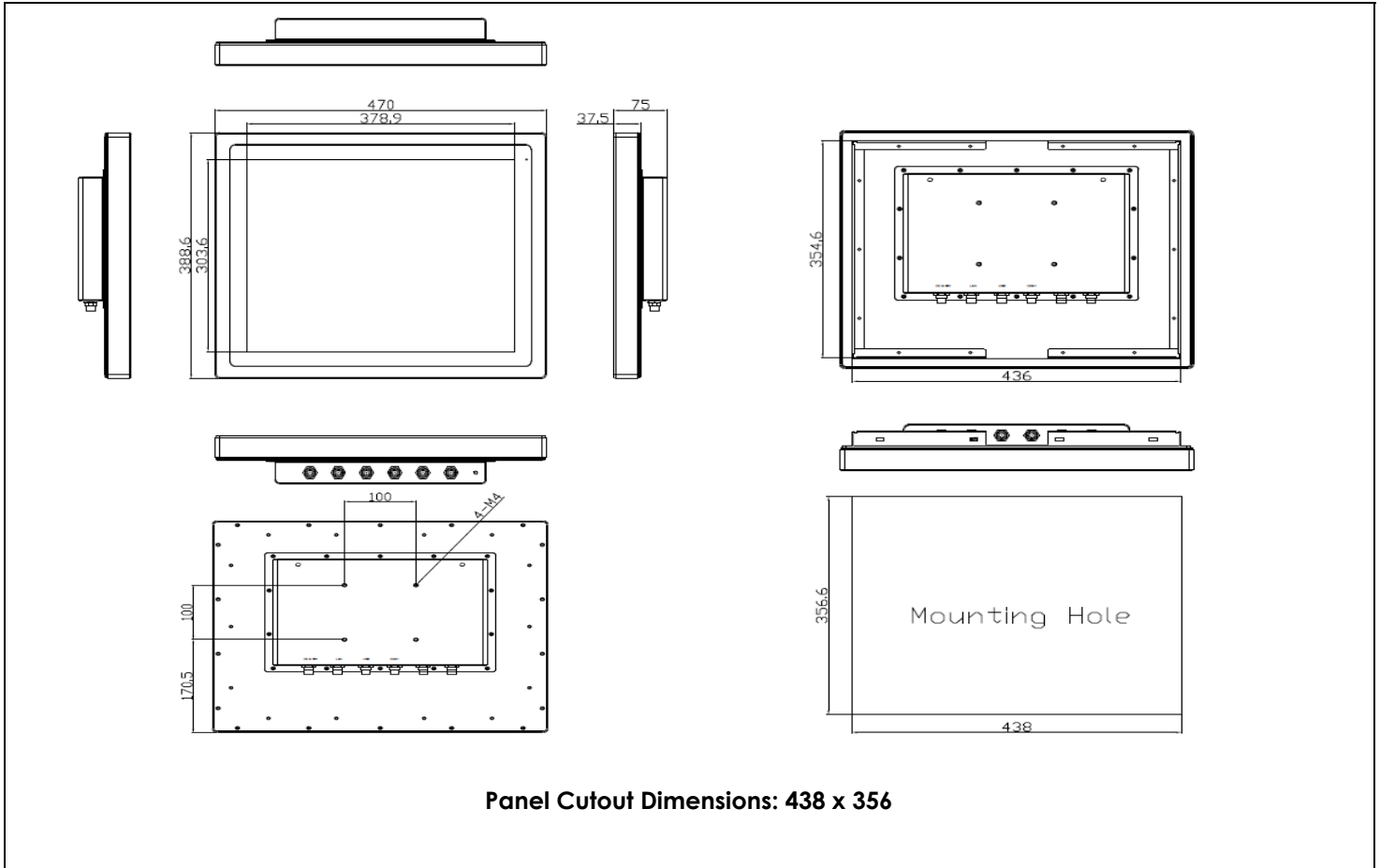
All product specifications are subject to change without notice

Last updated: 18-Oct-2017

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Unit: mm

Dimensions



Ordering Information

| Part Number | Description |
|---------------------|---|
| AIEX-BRK19S | AEX-819 Panel Mount Bracket Cutout Dimensions 438X356 |
| WIN7-PRO/1PK/X64X32 | Windows 7 Professional for Embedded Systems (FES) |
| WIN7-PROEMBSTD | Windows Embedded Standard 7 P |
| WIN10IOTENT-E | WIN10 IoT Ent LTSB 2016 MultiLang Entry (N2930) |

I/O Layout

