HAR15ID3S-A3FTE-5RT

15", 1024 x 768 XGA, Hazardous Areas Classified Locations HMI Touch Panel PC, Intel® Atom™ N2600 with Completely Sealed IP65 Stainless Steel

Features and Benefits

- Powered by high-performance and low power consumption (TDP 3.5W) Intel® Atom™ processor N2600 1.6 GHz
- 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
- Class I, Division 2, Groups A,B,C,D, T4 certified
- ATEX 94/9/EC, and CE certification
- II 3 G Ex nA ic IIA T4 certified
- IEC 60079-11, Equipment protection by intrinsic safety “I”
- IEC 60079-15, Equipment protection by type of protection “n”

Introduction

The AIS 15" 1024 x 768 XGA HMI panel PC and HMI thin client for Hazardous Areas 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 Hazardous Area panel PC supports a wide operating temperature from -20 to 50°C (-4 to 122°F), comes with pre-installed Windows Embedded or Linux operating system; and is powered by high-performance and low power consumption (TDP 3.5W) Intel® Atom™ processor N2600 1.6 GHz in fanless industrial-grade high-bright LCD flat touch screen panels (with option for sunlight readable LCD displays). 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 computers and open HMI platforms which are primarily designed for the volatile and harsh environments of Oil, Gas, and oilfield equipment & services.

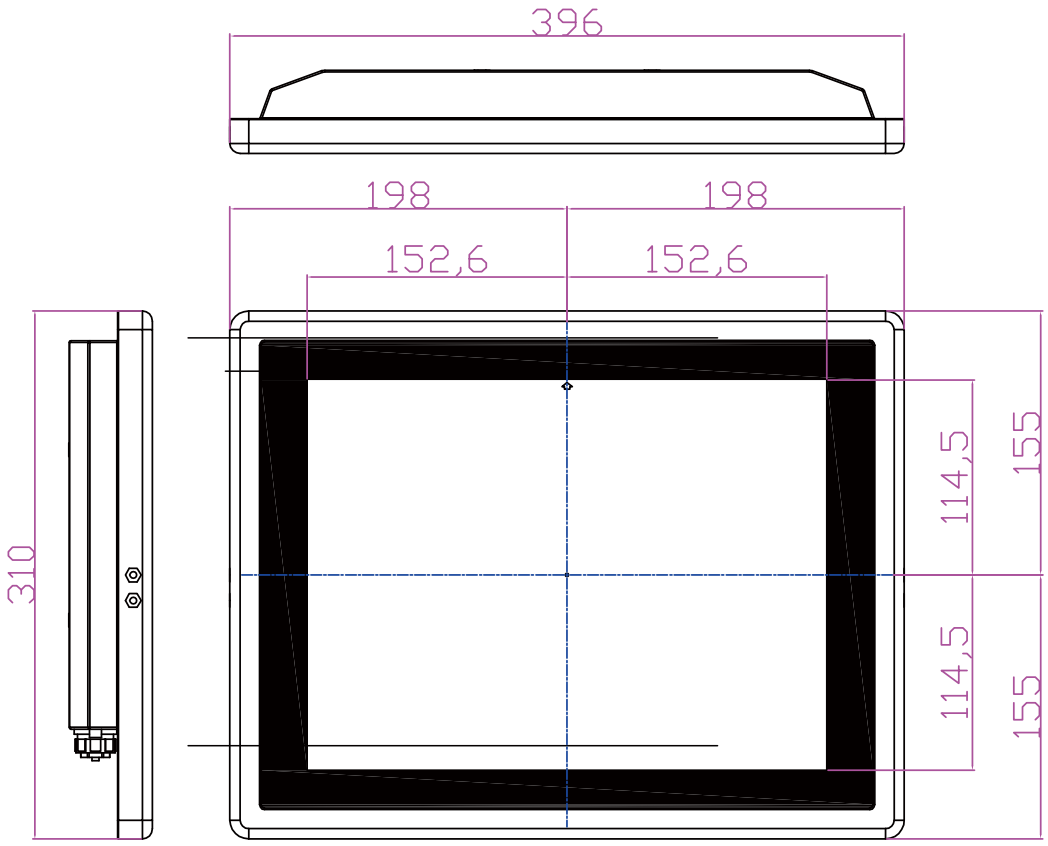
Specifications

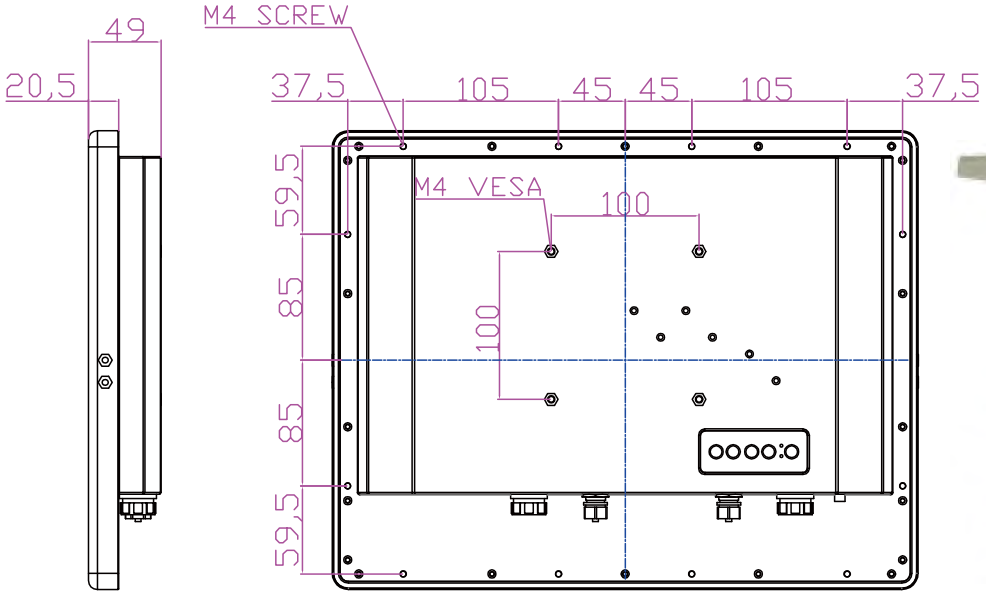
Display	
Display	15" diagonal, Active matrix TFT LCD
Aspect Ratio	4:3
Active/Area	304.1 (H) x 228.1 (V) mm
Native (Optimal) Resolution	1024 x 768 XGA
Colors	16.2M (6bits+FRC)
Brightness (Typical)	LCD Panel: 1,000 nits Resistive Touch: 800 nits
Contrast Ratio	700:1
Viewing Angle	Horizontal: 160° Total Vertical: 140° Total
Touch Technology	Analog Resistive 5-wire
System Hardware	
Processor	Intel® Atom™ Processor N2600 1.6 GHz
System Chipset	Intel® 945GSE / ICH7M
System Memory	4GB DDR3 1333 MHz, up to 4GB
Storage	32GB mSATA Solid State Drive
I/O Interfaces	
Serial Ports	1 x RS232 (IP65 connector and cable)
USB Ports	2 x USB 2.0 (IP65 connector and cable)
Ethernet Ports	1 x RJ 45-10/100/1000 Mbps (IP65 connector and cable)
General	
Power Input	9V to 36V DC
Operation System Support	Windows Embedded Standard 7 E
Mounting Options	100 x100 mm VESA Mount, Panel Mount
Dimensions (W x H x D)	396 x 310 x 49 mm
Environmental Conditions	
Temperature	Operating: -20°C to 50°C (-4°F to 122°F)
Humidity (Non-condensing)	10 to 90% RH
Shock Protection	Operating: 15G, 11ms duration
Vibration Protection	Operating: 5 to 500 Hz, 1 Grms random vibration
Compliance	
Compliance	CE, FCC, ISA 12.12.01-2012, CSA C22.2 NO.213-M1987, ATEX 94/9/EC, UL 60950-1

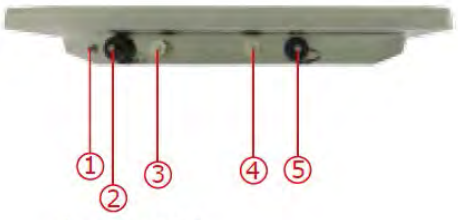
Order Information

HAR15ID3S-A3FTE-5RT:15", 1024 x 768 XGA, Hazardous Areas Classified Locations HMI Touch Panel PC, Intel® Atom™ Processor N2600 with Completely Sealed IP65 Stainless Steel, Resistive Touch

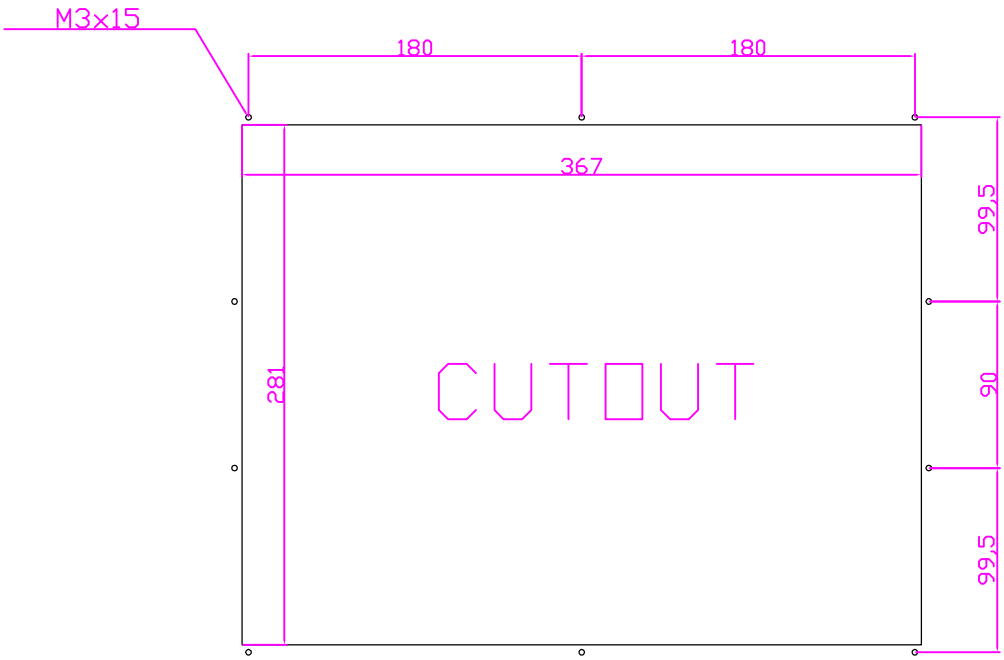
Unit: mm



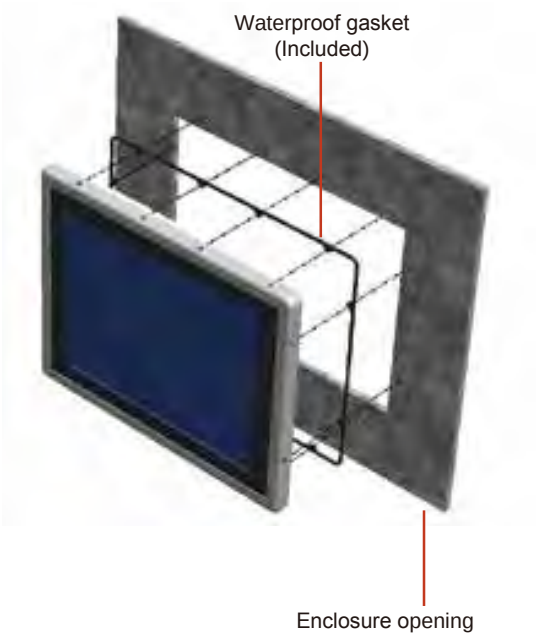


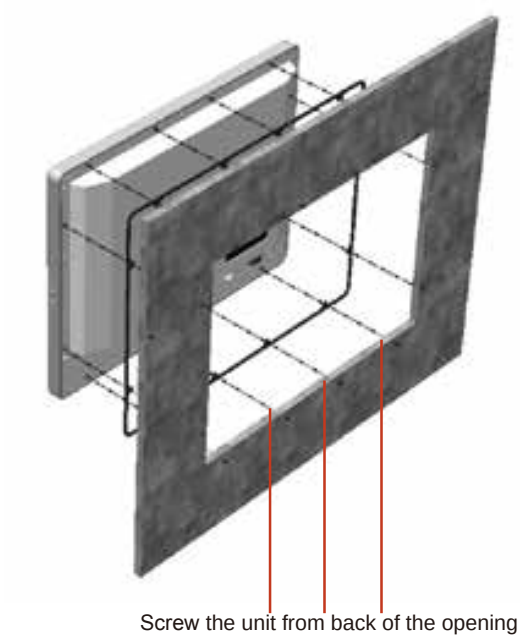


1. Ground
2. Power (9~36V DC input)
3. LAN
4. RS-485
5. 2 x USB



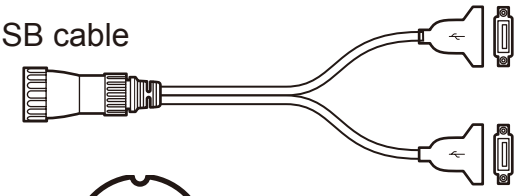
Installation

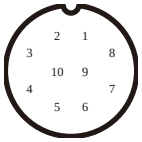




HAR15ID3S-A3FTE-5RT Pin Assignments

USB cable



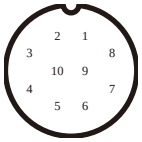


Pin No.	Symbols	Color
CN1-1	VCC	RED
CN1-2	VCC	RED
CN1-3	D-	WHITE
CN1-4	D-	WHITE
CN1-5	D+	GREEN
CN1-6	D+	GREEN
CN1-7	GND	BLACK
CN1-8	GND	BLACK
CN1-9	Braid	

RS-232 cable

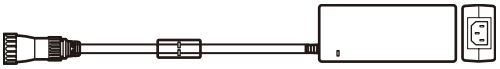
Pin No.	Symbols	Color
CN2-1	DCD-CON2	Green
CN2-2	DSR-CON2	Brown
CN2-3	RXD-CON2	Red
CN2-4	RTS-CON2	Orange
CN2-5	TXD-CON2	Blue
CN2-6	CTS-CON2	White
CN2-7	DTR-CON2	Purple
CN2-8	RI-CON2	Yellow
CN2-9	GND-CON2	Black

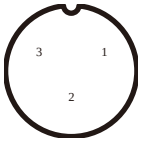
Ethernet (LAN) cable



Pin No.	Color
CN2-1	White/Orange
CN2-2	Orange
CN2-3	White/Green
CN2-4	Blue
CN2-5	White/Blue
CN2-6	Green
CN2-7	White/Brown
CN2-8	Brown

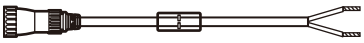
Power adapter

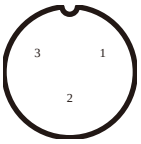




Pin No.	Symbols	Color
CN2-1	VCC	Follow Adapter
CN2-2	GND	Follow Adapter
CN2-3	GND	Follow Adapter

DC power cable open wire





Pin No.	Symbols	Color
CN2-1	VCC	Red
CN2-2	Shield	
CN2-3	GND	Black

WARNING

Ensure that the external power source is OFF before connecting or disconnecting the DC in jack.