

ATEX Safety Certification solutions is well-prepared for Hazardous Environment Applications

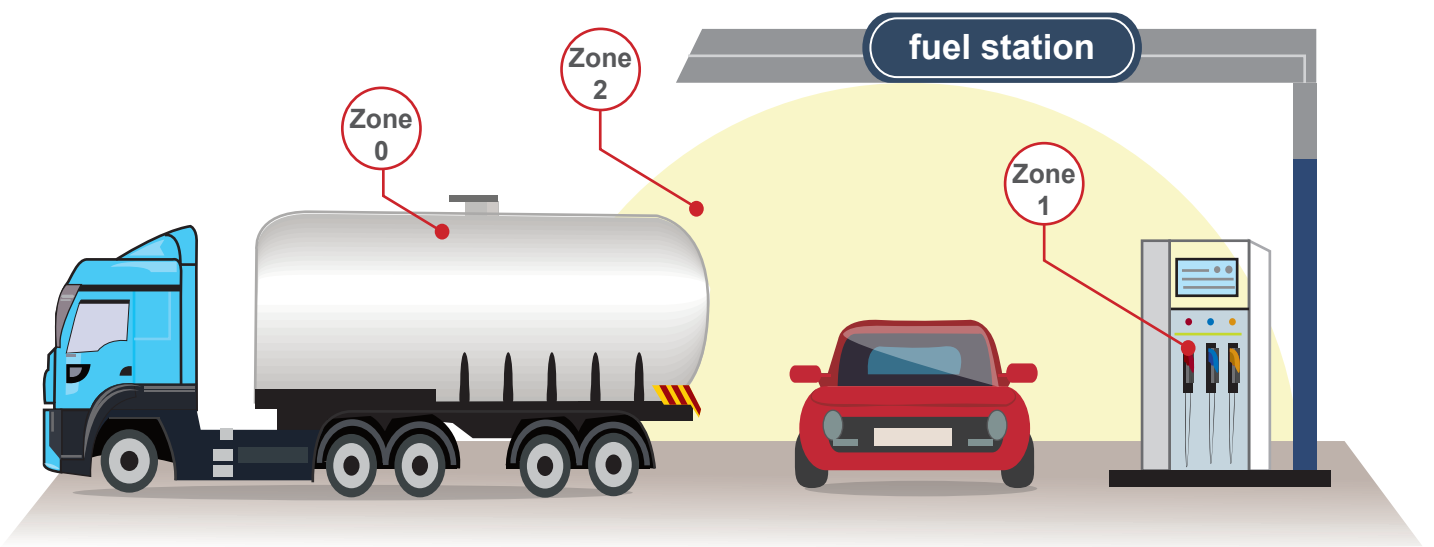
AEx Series

Pave the Way for Intelligent Oil and Gas Industry



APLEX AEx series is the solution for hazardous environment. It is capable of withstanding vibration, shock, corrosion and can operate under the condition of exposure to gas and vapor. The AEx series comes in panel PC (AEx-8XXP/9XXAP), display (AEx-1XXP) and box PC (AEx-2410/2411) which are packed with different level of computing performance required in the harshest environment applications.

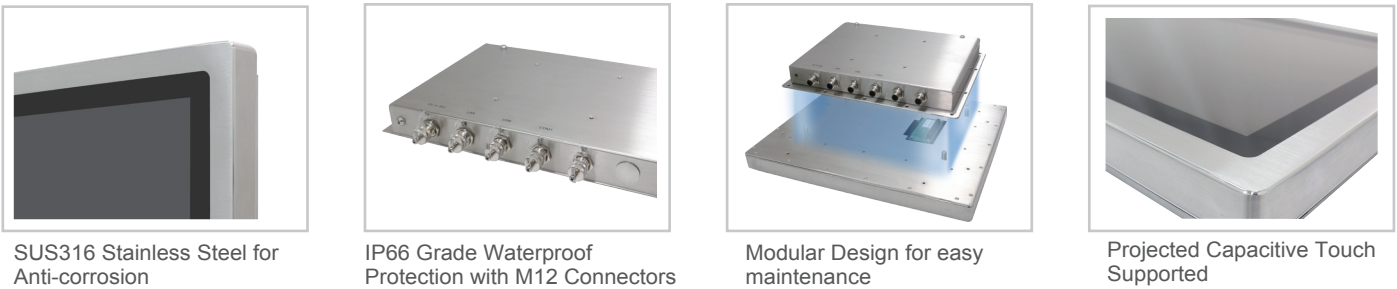
In potentially explosive atmosphere, the explosion can be occurred when three elements exist: Flammable and combustible substances, Comburents, Ignition source. The equipments in this environment strictly are required the high safety certification to ensure that each stage operates accurately. APLEX AEx series solutions meet ATEX/IECEX/C1D2 certification for intrinsic safety that can be greatly used in Ex-area.



- Zone0: present frequently, continuously, or for long periods. (>1000hrs/year)
- Zone1: occur in normal operation occasionally. (less than <1000 hours/year)
- Zone2: occur in normal operation, but if it does occur, will persist for a short period only.(less than 10 hrs/year)
- C1D2 certification ensures AEx series will not create sparks which could be detonated.

Explosion group		Examples depending on -explosion group -temperature class			
IIA	IIB	IIC	Ammonia Methane Ethane Propane	Ethanol Cyclohexene n-Butane	Petrol Diesel fuel Fuel oil n-Hexane
			City gas Acrylic Nitrile	Ethylene Ethylene oxide	Ethyl glycol Carbon hydrogen
			Hydrogen	Acetylene	Carbon disulphide
			T1<450°C		
			T2<300°C		
			T3<200°C		
			T4<135°C		
			T4<135°C		
			T6<85°C		

	AEx series	
	ATEX and IECEx Marking: II 3 G Ex nA ic IIC T4 Gc	
II	Equipment Group	
3	Equipment Category	
G	Environment	
Ex	Explosion-proof equipment identification	
nA	Type of Protection	
ic	Type of Protection	
IIC	Explosion group	
T4	Temperature Class (T1-T6)	
Gc	Equipment protection class	



Size Selection: 15", 16", 19", 21.5" LCD

- ATEX Zone2, IECEx and C1D2 Certified
- Intel Core 6th i5/i3 processor (AEx-9XXAP(H) series)
- Intel Celeron Processor N2930 (Aex-8XXP(H) series)
- Wide range DC 9~36V Power Input
- Support Panel Mount & VESA Mount
- Support Projected Capacitive Touch
- Full Flat Bezel and Fanless Design
- Modular Design

AEx-2410/2411 + AEx-1XXP(H) series Asset Monitoring and Inspection / Data Collection



Collecting data from oil pipe/tank via Box PC, workers enable to inspect and monitor the information via Display.



AEx-8XXP(H)/9XXAP(H) Series Equipment Real-time Controlling

In small control room of oil and gas industry, controlling power on/off button is equipped for adjusting (order of oilpipe), maintenance and emergency.



AEx-8XXP(H)/9XXAP(H) Series Central Control Room

Multiple panel PCs are presented in control room to deal with every situation 24/7.



AEx-2410/2411 Box PC series Data Gateway / Communication / Notification



Collecting data from dangerous field. EX. Personnel access, Vehicle control, equipment temp and air pollution monitoring



Specificaton

	Panel PC								Display				Box PC	
Model Name	AEx-8XXP series				AEx-9XXAP series				AEx-1XXP series				AEx-2410	AEx-2411
	815P(H)	816P(H)	819P(H)	821P	915AP(H)	916AP	919AP(H)	921AP	115P(H)	116P	119P(H)	121P		
System														
Processor	Intel Celeron N2930				Intel 6th Gen. Skylake Core i3/i5				—				Intel Celeron N2930	Intel 6th Gen. Skylake Core i3/i5
System chipset	SoC												SoC	
System memory	Onboard 4GB DDR3L 1600MHz, 8GB for option				1 x DDR4 SO-DIMM slot up to 16GB 2400MHZ				—				Onboard 4GB DDR3L1600MHz, 8GB for option	1 x DDR4 SO-DIMM slot up to 16GB 2400MHZ
External I/O														
USB	2 x USB 2.0								1 x USB for Touch Control				2 x USB 2.0	
Serial/Parallel	1 x COM1/RS-232/422/485 selectable (Default RS-232)								—				1 x COM1/RS-232/422/485 selectable (Default RS-232)	
LAN	1 x LAN								—				1 x LAN	
Graph									1 x VGA				1 x VGA	
Function Keypad	—				—				1 x OSD Cable & External OSD BOX				—	
Power	1 x DC 9~36V Power Input								1 x DC 9~36V Power Input				1 x DC 9~36V Power Input	
Option I/O														
Option1	2 x USB 3.0								—				1 x USB 3.0	
Option2	1 x USB 3.0 / 2 x USB 2.0								—				2 x USB 2.0	
Option3	1 x RS-232 / 2 x USB 2.0								—				1 x RS-232	
Option4	1 x RS-232 / 1 x USB 3.0								—				—	
Storage Space														
HDD	1 x 2.5" HDD or SSD								—				1 x 2.5" HDD or SSD	
Storage Device	1 x Internal SD Card				—				—				1 x Internal SD Card	—
Expansion														
Expansion slot	1 x Mini-PCle full size for WLAN/BT								—				1 x Mini-PCle full size for WLAN/BT	
Display														
Display type	15"	15.6"	19"	21"	15"	15.6"	19"	21"	15"	15.6"	19"	21"	—	
Max. resolution	1024 x 768	1920 x 1080	1280 x 1024	1920 x 1080	1024 x 768	1920 x 1080	1280 x 1024	1920 x 1080	1024 x 768	1920 x 1080	1280 x 1024	1920 x 1080	—	
Max. color	16.2M/262K	16.7M	16.7M	16.7M	16.2M/262K	16.7M	16.7M	16.7M	16.2M/262K	16.7M	16.7M	16.7M	—	
Luminance(cd/m²)	450 Option 1000	400	350 Option 1000	300	450 Option 1000	400	350 Option 1000	300	450 Option 1000	400	350 Option 1000	300	—	
View angle(H°/V°)	160/150	160/140	170/160	178/178	160/150	160/140	170/160	178/178	160/150	160/140	170/160	178/178	—	
Contrast	800:1	700:1	1000:1	5000:1	800:1	700:1	1000:1	5000:1	800:1	700:1	1000:1	5000:1	—	
Backlight lifetime(hrs)	50,000 hrs								50,000 hrs				—	
Touch Screen														
Type	Projected Capacitive Touch								Projected Capacitive Touch				—	
Interface	USB								USB				—	
Light transmission(%)	90%								90%				—	
Power														
Power input	DC 9~36V power input								DC 9~36V power input				DC 9~36V power input	
Mechanical														
Construction	SUS316 Grade Stainless Steel								SUS316 Grade Stainless Steel				SUS316 Grade Stainless Steel	
IP rating	Total IP66								Total IP66				Total IP66	
Mounting	Support VESA mount 100 x 100, Panel mount for option								Support VESA mount 100 x 100, Panel mount for option				Support VESA mount 100 x 100, Wall mount for option	
Dimension(mm)	399 x 324 x 70	440 x 290 x 75	470 x 388.6 x 75	571 x 362 x 75.1	399 x 324 x 70	440 x 290 x 75	470 x 388.6 x 75	571 x 362 x 75.1	399 x 324 x 70	440 x 290 x 75	470 x 388.6 x 75	571 x 362 x 75.1	334 x 195 x 38.5	
Enviroment														
Operating temperature(°C)	0~50 °C													
Storage temperature(°C)	-30~70 °C													
Storage humidity	10 to 90%@ 40°C, non-condensing													
Certification	Meet CE / FCC Class A, ATEX Zone2 Ex nA ic IIC T4 Gc Class I, Division2, Group ABCD T4 ANSI/ISA 12.12.01-2013 CSA Std. C22.2 No213-1987/No.61010													
Operating System Support	Windows 7 Pro for Embedded, Windows Embedded Standard 7, Windows Embedded 8.1 Pro (ESD) (42C-00075) support multi-language, Windows Embedded 8.1 Industry Pro (ESD) (5JV-00162) support multi-language, Windows 10 IOT Enterprise LTSPB 2016													

About APLEX

- Founded in 2004
- Headquarterters: Taipei,Taiwan
- Worldwide offices: USA,Beijing,Shanghai and Shenzhen
- Manufacturing capability: System production center in Taiwan delivering system products.Board design and manufacturing in China

APLEX has committed to providing and developing innovative technologies that enable to benefit our partners. By offering a full spectrum of quality products ranging from industrial panel PCs, HMI, industrial displays, embedded box PC. APLEX is proud that we fulfill the requirements of our customers in a wide range of industrial applications fields, including factory automation, surveillance, control and communication, ,medical, healthcare , logistic.



APLEX (ShangHai)
5B,14Building,NO.470 Guipig Road, Shanghai, zip 200233,China
Tel: +86-21-54262303 、 54262305 、 54262306
Fax: +86-21-54262302 ext.120
E-mail: sales@aplex.com.tw

APLEX Headquarter
15F-1, No. 186, Jian Yi Road, Zhonghe Dist., New Taipei City, 235 Taiwan
Tel: +886-2-82262881
Fax: +886-2-82262883
E-mail: sales@aplex.com.tw

APLEX (ShenZhen)
Building 3, Sub-zone 5, Zhongguanhonghualing Industry South Zone,Nanshan District, Shenzhen, Zip 518054, China
Tel:+86-755-2664-7540/41/42-113
Fax:+86-755-2664-8326
E-mail: sales@aplex.com.tw

APLEX (BeiJing)
#1226 Jingchao Plaza No.5 South Agriculture Exhibition Rd,Chacyang District, Beijing
Tel: +86-10-56034912
Fax: +86-10-65018827
E-mail: sales@aplex.com.tw

APLEX (USA)
2065 Martin Ave., Suite 107 Santa Clara, CA 95050
Tel: +1-669-999-2500
Fax: +1-669-999-2499
E-mail: sales@aplextec.com

All products and company names listed are trademarks or trade names of their respective companies
All specification are subject to change without further notice.



AEx Series

- ▶ AEx-8XXP(H)
- ▶ AEx-9XXAP(H)
- ▶ AEx-2410/2411
- ▶ AEx-1XXP(H)

