

# ICS-1372

## Industrial Grade Cyber Security Appliance With Intel® Atom™ X6400



Images are for reference only. See ordering information for SKU details.

## ■ Features

- Industrial Grade Cyber Security Platform
- Intel® Atom™ X6400 Processor
- 8x, 6x or 4x 2.5GbE RJ45 ports with 1 or 2 pairs Bypass & 2x GbE SFP (by SKU)
- 2x USB 3.0, 1x DB9 Console, 2x DI, 2x DO, 64GB eMMC Onboard
- 1x M.2 3042/3052 B-Key for LTE/5G sub6 with dual SIM, 1x M.2 2230 E-Key for WiFi
- Onboard TPM 2.0

## ■ Specifications

### Processor System

CPU	Intel® Atom™ X6425E/X6413E
Frequency	2.0 GHz/ 1.5 GHz
Core Number	4
BIOS	AMI SPI Flash BIOS
Chipset	Intel® i226-IT

### Memory

Technology	DDR4 3200, In Band ECC
Max. Capacity	32GB
Socket	1x SODIMM

### Graphic

Controller	Intel HD Graphics 500
Display	1x DP

### Ethernet

Controller	LAN3 & LAN4: Intel i210IS/IT/AT LAN1, 2 & LAN5 ~ 8: Intel i226IT
Speed	LAN1, 2 & LAN5 ~ 8: 10/100/1000/2500 Mbps LAN3 & LAN4 : 100/1000 Mbps
Interface	8x, 6x or 4x 2.5GbE RJ45 ports with 1 or 2 pairs Bypass 2x GbE SFP (by SKU)
LAN Bypass	1 or 2 Pairs

### Storage

Storage Interface	Onboard eMMC 64GB 1x M.2 2242 M-Key SATA
Design Reserved	1x SATA for 2.5"SSD/HDD or mSATA by connecting to mSATA board

### I/O

Serial Port	1x DB9 Console
USB	2x USB 3.0 Type A
Reset Button	Default H/W Reset, Selectable By Jumper To SW Reset
DIO	2x DI & 2x DO
LED	HDD, Power, LTE Status, LTE Signal, DI/DO, LAN TX/RX

### Expansion

M.2	1x M.2 3042/3052 B-Key for LTE/5G sub6 with dual SIM 1x M.2 2230 E-Key for WiFi
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### Watchdog Timer

Watchdog Timer 256 Level Time Interval System Reset, Software Programmable

### Power

Power Supply Voltage	Dual DC Input 12~36V
Connector	1x 6-pin Terminal Block
Dual power inputs	Yes
Power Consumption (Idle)	TBD
Power Consumption (Full Load)	TBD
Power Adaptor	None

### Environment

Operating Temperature	-40°C ~ 70°C with LTE
Non-Operating Temperature	-40°C ~ 70°C
Humidity	Operating Relative Humidity: 10~90% Non-Operating Humidity: 5~95%

### Mechanical

Dimension (W x H x D)	81 x 180 x 156.5 mm
Packaging Dimensions	366 x 251 x 150 mm (inner) 468 x 385 x 279 mm (3 in 1)
System Cooling	Fanless
Construction	Aluminum + SGCC
Weight	2.5 kg
Mounting	DIN-rail or Wallmount

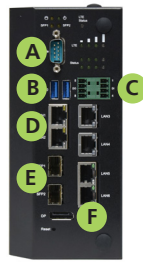
### OS Support

Windows	Windows 10 IoT 64bits/11 IoT
Linux	Ubuntu 20.04

### Certification

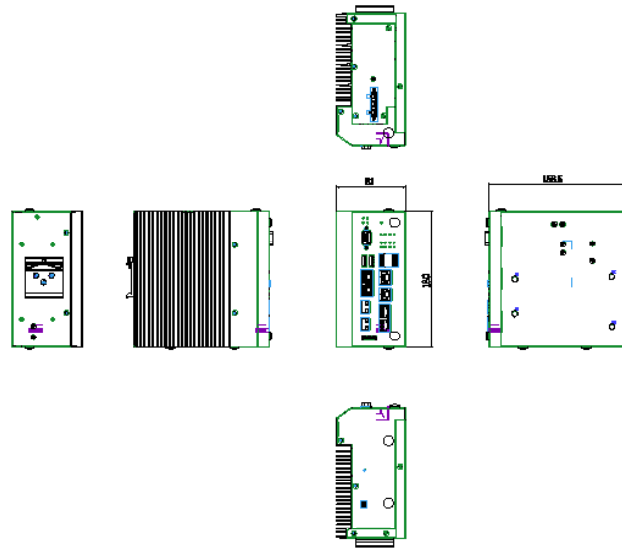
EMC	CE/ FCC Class A
Safety	UL/IEC 62368-1 certified, C1D2 compliant

## Product I/O View



- A** Serial Port
- B** USB
- C** DIO
- D** LAN
- E** SFP
- F** DP
- G** DIN-rail Mount

## Dimensions (WxHxD): 81 x 180 x 156.5 mm



## Ordering Information

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|------------------|---|
| <b>ICS-1372A</b> | Intel® X6425E CPU with 1x DDR4 SO-DIMM 8GB, 1x DP, 8x 2.5GbE with 1 pair Bypass, 2x USB 3.0, 1x DB9 Console, 2x DIO, 64GB eMMC, support 1x M.2 M-Key 2242 SATA & optional for 1x 2.5" drive bay, 1x M.2 3042/3052 B-Key (USB3.0) with dual nano-SIM reader & 1x M.2 2230 E-Key for WiFi, Dual 12-36VDC input          |
| <b>ICS-1372B</b> | Intel® X6425E CPU with 1x DDR4 SO-DIMM 8GB, 1x DP, 8x 2.5GbE with 2 pair Bypass, 2x USB 3.0, 1x DB9 Console, 2x DIO, 64GB eMMC, support 1x M.2 M-Key 2242 SATA & optional for 1x 2.5" drive bay, 1x M.2 3042/3052 B-Key (USB3.0) with dual nano-SIM reader & 1x M.2 2230 E-Key for WiFi, Dual 12-36VDC input          |
| <b>ICS-1372C</b> | Intel® X6425E CPU with 1x DDR4 SO-DIMM 8GB, 1x DP, 6x 2.5GbE with 1 pair Bypass & 2x SFP, 2x USB 3.0, 1x DB9 Console, 2x DIO, 64GB eMMC, support 1x M.2 M-Key 2242 SATA & optional for 1x 2.5" drive bay, 1x M.2 3042/3052 B-Key (USB3.0) with dual nano-SIM reader & 1x M.2 2230 E-Key for WiFi, Dual 12-36VDC input |
| <b>ICS-1372D</b> | Intel® X6413E CPU with 1x DDR4 SO-DIMM 8GB, 1x DP, 6x 2.5GbE with 1 pair Bypass & 2x SFP, 2x USB 3.0, 1x DB9 Console, 2x DIO, 64GB eMMC, support 1x M.2 M-Key 2242 SATA & optional for 1x 2.5" drive bay, 1x M.2 3042/3052 B-Key (USB3.0) with dual nano-SIM reader & 1x M.2 2230 E-Key for WiFi, Dual 12-36VDC input |
| <b>ICS-1372E</b> | Intel® X6413E CPU with 1x DDR4 SO-DIMM 8GB, 1x DP, 4x 2.5GbE with 1 pair Bypass & 2x SFP, 2x USB 3.0, 1x DB9 Console, 2x DIO, 64GB eMMC, support 1x M.2 M-Key 2242 SATA & optional for 1x 2.5" drive bay, 1x M.2 3042/3052 B-Key (USB3.0) with dual nano-SIM reader & 1x M.2 2230 E-Key for WiFi, Dual 12-36VDC input |
| <b>ICS-1372F</b> | Intel® X6413E CPU with 1x DDR4 SO-DIMM 8GB, 1x DP, 4x 2.5GbE with 1 pair Bypass & 2x SFP, 2x USB 3.0, 1x DB9 Console, 2x DIO, 64GB eMMC, support 1x M.2 M-Key 2242 SATA & optional for 1x 2.5" drive bay, 1x M.2 3042/3052 B-Key (USB3.0) with dual nano-SIM reader & 1x M.2 2230 E-Key for WiFi, Dual 12-36VDC input |

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