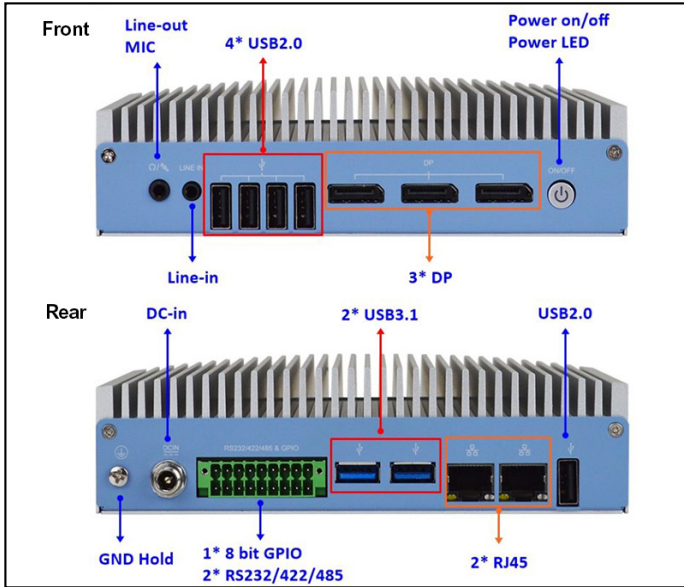


# HB368F21-6412-AI



3.5"

Compact Edge AI System with Intel® J6412 SoC Processor and Integrated Hailo-8™ AI Accelerator



## Features

- **Efficient Processing:** Powered by Intel® J6412 SoC Processor (Elkhart Lake, TDP 10W)
- **Integrated AI Acceleration:** Features Hailo-8™ M.2 M-key module delivering 26 TOPS for AI applications
- **Triple Display Support:** Equipped with 3 x DisplayPort outputs supporting 4K Resolution
- **Comprehensive I/O:** Includes 2 x USB 3.2 Gen2, 4 x USB 2.0, and 1 Phoenix Port (1 GPIO, 2 RS232/422/485)
- **Storage & Expansion:** On-board eMMC, 1 x M.2 E-Key, 1 x M.2 M-Key, 1 x M.2 B-Key, and 1 SIM card slot
- **Compact Design:** Supports Wall Mount and DIN Rail for Space-Saving Installation
- **Wide Range DC-In:** Supports 12-36V input for versatile power options

## Packing List

PART NUMBER	DESCRIPTION	QTY
HB368F21 series	HB368F21 series	1
HCSFBMWM01B-F	Power cord	1
HCS3XXDINRAILPS-F	DIN RAIL clip KITS	1
L01AS052-F	Adapter DC12V_60W	1
Change according to shipping area	Power cord	1
LCSCHBIC3XX-F	Screw Pack	1
J05-ANT-GX57245-F	Antenna 2G4/5G 2.8dBi (WiFi Series only)	1

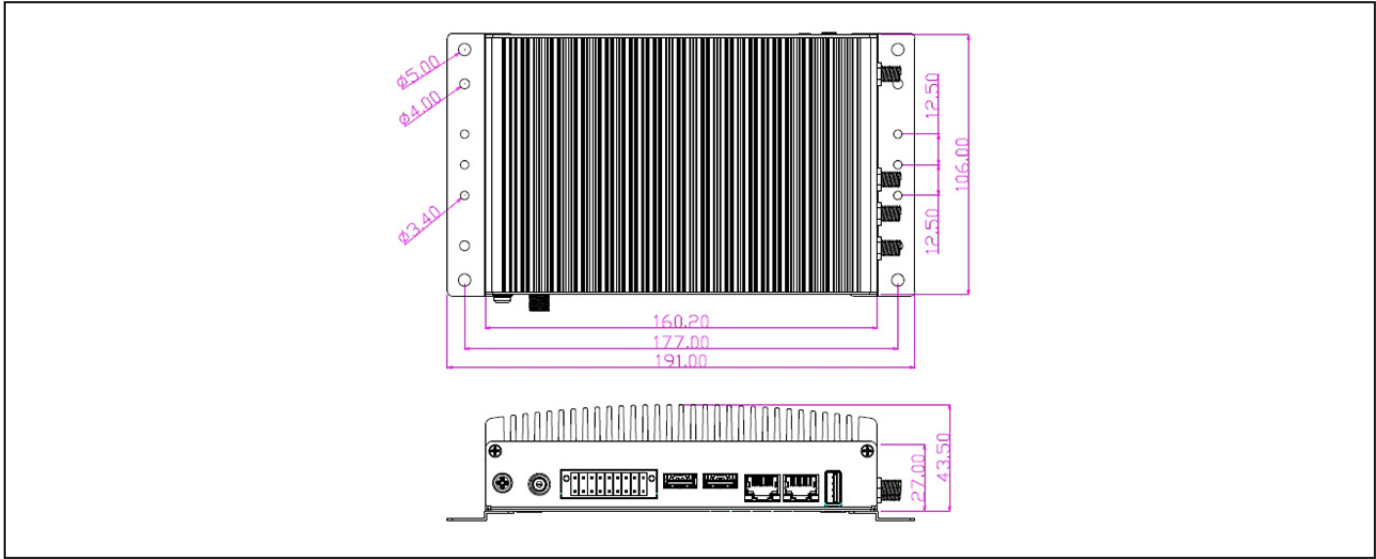
## Optional Accessory

PART NUMBER	DESCRIPTION	QTY
—	DIN RAIL MODULE	1

## Specifications

SYSTEM	
MB FORM FACTOR	3.5"
CPU	Onboard Intel® Celeron® Processor J6412 (Formerly Elkhart Lake, TDP 10W) For additional compatible CPUs, please contact regional sales
CHIPSET	Intel® SoC
MEMORY	1 x DDR4 3200MHz, Single Channel SO-DIMM, up to 32GB
BIOS	AMI Flash ROM
WATCHDOG TIMER	255 Levels
SECURITY	TPM2.0
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux
POWER	
POWER REQUIREMENT	DC-in 12-36V 40W Adapter: AC90-240V, DC12V/3.3A
POWER ON MODE	AT / ATX
DISPLAY	
GPU	Intel® HD Graphics, shared memory
DP	3 x DP (Max Resolution: 4096 x 2160@60Hz)
MULTIPLE DISPLAY	Support 3 Displays
LAN	
ETHERNET	2 x RJ45 for Realtek® RTL8119I GbE
SYSTEM I/O	
REAR PANEL I/O	2 x RJ45 2 x USB3.1 (Gen2) 1 x USB 2.0 1 x 8-bit GPIO (Phoenix Connector 2 x 9 PIN) 2 x RS-232/422/485 (Phoenix Connector 2 x 9 PIN) 1 x DC12-36V 1 x GND Hold
FRONT PANEL I/O	1 x Power LED 1 x Power Button 4 x USB 2.0 1 x Audio (Line-out + MIC-in) 1 x Line-in 3 x DP
STORAGE	
eMMC	eMMC 64GB (optional)
EXPANSION	
M.2	1 x B-key 3042 (USB3.0 interface) 1 x E-Key 2230 (USB 2.0/PCIe 3.0 x1) 1 x M-Key 2242/2280 (SATA/PCIe 3.0 x2) Support NVMe
SIM	1 x SIM Card Slot
OTHERS	
OTHER	1 x Hailo-8 M.2 M KEY module (AI Accelerator)
MECHANICAL	
MOUNTING	Wall Mount, DIN Rail Clip
DIMENSIONS (W x D x H)	160.2 (W) x 106.0 (D) x 43.5 (H) mm
GROSS WEIGHT	1.52 kg
NET WEIGHT	1.01 kg
ENVIRONMENT & CERTIFICATION	
OPERATING TEMPERATURE	-20°C ~ 70°C (-4°F ~ 158°F)
STORAGE TEMPERATURE	-40°C ~ 85°C (-40°F ~ 185°F)
OPERATING HUMIDITY	10 ~ 90% Relative Humidity, Non-condensing
STORAGE HUMIDITY	0 ~ 95% Relative Humidity, Non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS China RoHS ErP

## Dimension Unit: mm



## Ordering Information

PART NUMBER	HB368F21-6412-AI	HB368F21I-6412-AI
CPU	Intel® Celeron® J6412	Intel® Celeron® J6412
SECURITY	TPM2.0	TPM2.0
POWER REQUIREMENT	DC-in 12-36V	DC-in 12-36V
GPU	Intel® HD Graphics, shared memory	Intel® HD Graphics, shared memory
DP	3 x DP (Max Resolution: 4096*2160@60Hz)	3 x DP (Max Resolution: 4096*2160@60Hz)
MULTIPLE DISPLAY	Support 3 Displays	Support 3 Displays
ETHERNET	2 x GbE	2 x GbE
I/O	2 x RJ45	2 x RJ45
I/O	2 x USB 3.2 Gen 2	2 x USB 3.2 Gen 2
I/O	5 x USB 2.0	5 x USB 2.0
I/O	2 x RS-232/422/485	2 x RS-232/422/485
I/O	1 x GPIO	1 x GPIO
I/O	1 x Audio (Line-out, MIC)	1 x Audio (Line-out, MIC)
I/O	1 x Line-in	1 x Line-in
I/O	1 x GND Hold	1 x GND Hold
I/O	1 x DC Jack	1 x DC Jack
eMMC	eMMC 64GB	eMMC 64GB
M.2	1 x E-Key 2230	1 x E-Key 2230
M.2	1 x B-Key 2242/3042/3052	1 x B-Key 2242/3042/3052
M.2	1 x Hailo-8 M KEY module	1 x Hailo-8 M KEY module
OTHER		Wifi
OPERATING TEMPERATURE	-20°C ~ 70°C (-4°F ~ 158°F)	-20°C ~ 70°C (-4°F ~ 158°F)