

## HM-2000

Intel® Apollo Lake-J3455 (co-lay N3350 / N4200) Automation Computers with 20 RS-232/485



- Intel® Apollo lake-J3455/1.5GHz/QC Processor
- Onboard 8G DDR3L/1600Mhz DRAM (Max 8GB)
- 2 x Intel® i211AT 10/100/1000Base-T Ethernet
- 20 x RS-232/ 485 ports with automatic flow control
- 20 x COM all support 5V/12V voltage regulation
- VGA, HDMI support 2 x independent displays
- Audio with MIC, Line in, Line out
- 8 x USB ports (4 x USB3.0)
- 16 bit Digital I/O support 5V/12V/24V
- The system support cableless and Fanless
- 9~36V wide input voltage can meet the needs of different industries



## Introduction

HM-2000 uses 9~36V wide voltage design to support over voltage and over current protection, onboard 4G low voltage memory, and support up to 8G memory. It also supports 2\* Display simultaneously and support front switch function.

HM-2000 is a system with metal structure. This can ensure its strength, stability and beautiful appearance in the same time. It also features with its fanless and wireless design, even the battery is designed with buckle assembly. These designs mostly ensure the stability of the system.

HM-2000 has 20 x RS-232/485 interfaces, each of which can be switched automatically and with 5V / 12V voltage regulation, which is greatly convenient for industrial automation.

## Specifications

### General

<b>Certification</b>	FCC, CE, ROHS
<b>Dimensions(W x D x H)</b>	HM-2000 : 223x170x127.5mm
<b>Mounting</b>	Stand mount, Enclosure mount
<b>Weight(Net)</b>	2.8Kg
<b>Power Requirements</b>	9~36V <sub>DC</sub>
<b>Power Consumption</b>	Typical 13.3W Max. 23.4W
<b>OS Support</b>	Windows 10, Linux

### Environment

<b>Temperature</b>	Operating : -10~60℃ Storage : -20~70℃
<b>Relative Humidity</b>	10~90% RH, non-condensing
<b>Vibration Protection</b>	Operating , IEC 60068-2-64-2008 5.1Grms, random,5~500Hz,1hr/axes ( SSD )
<b>Shock Protection</b>	Operating , IEC 60068-2-27-2008 30G,half sine wave,11ms(SSD)
<b>CE Protection</b>	EN 55032 : 2015 EN 55024 : 2010 + A1 : 2015 EN 61000-3-2 : 2014 EN 61000-3-3 : 2013

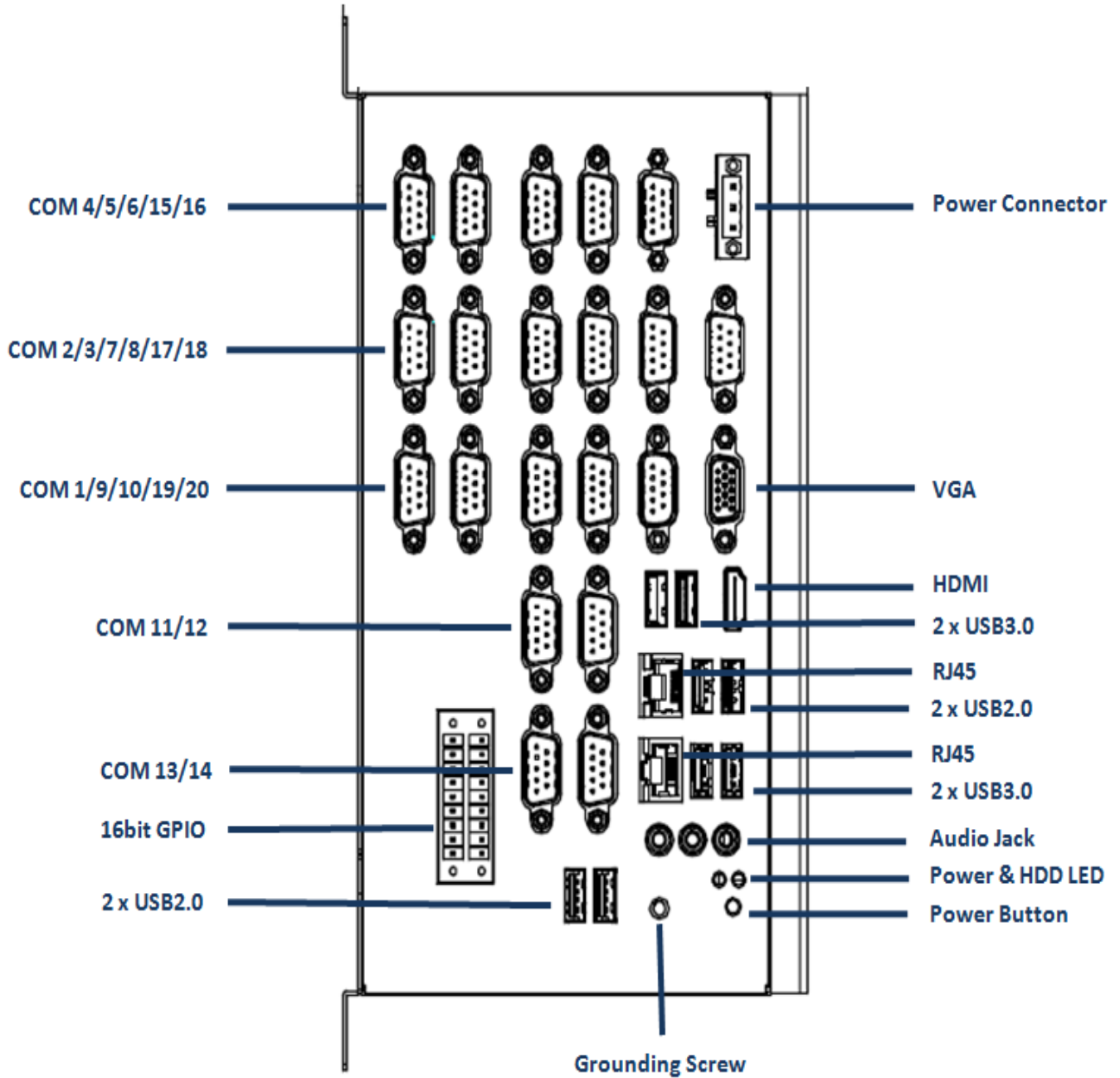
## Hardware

<b>BIOS</b>	AMI 128Mbit Flash BIOS
<b>CPU</b>	Intel® Apollo Lake J3455/1.50GHz/QC Processor
<b>System Chip</b>	Intel® Apollo Lake J3455 SOC
<b>Memory</b>	Onboard Samsung 8GB DDR3L/1600MHz Dram (Max 8GB)
<b>Graphics</b>	Intel® HD Graphics 500
<b>Ethernet</b>	2* Intel® i211AT GbE
<b>Storage</b>	1 built in 2.5" SATA HDD bracket 1 M.2 socket (2242/2260/2280 size)
<b>Expansion</b>	1 Full size Mini PCI-e

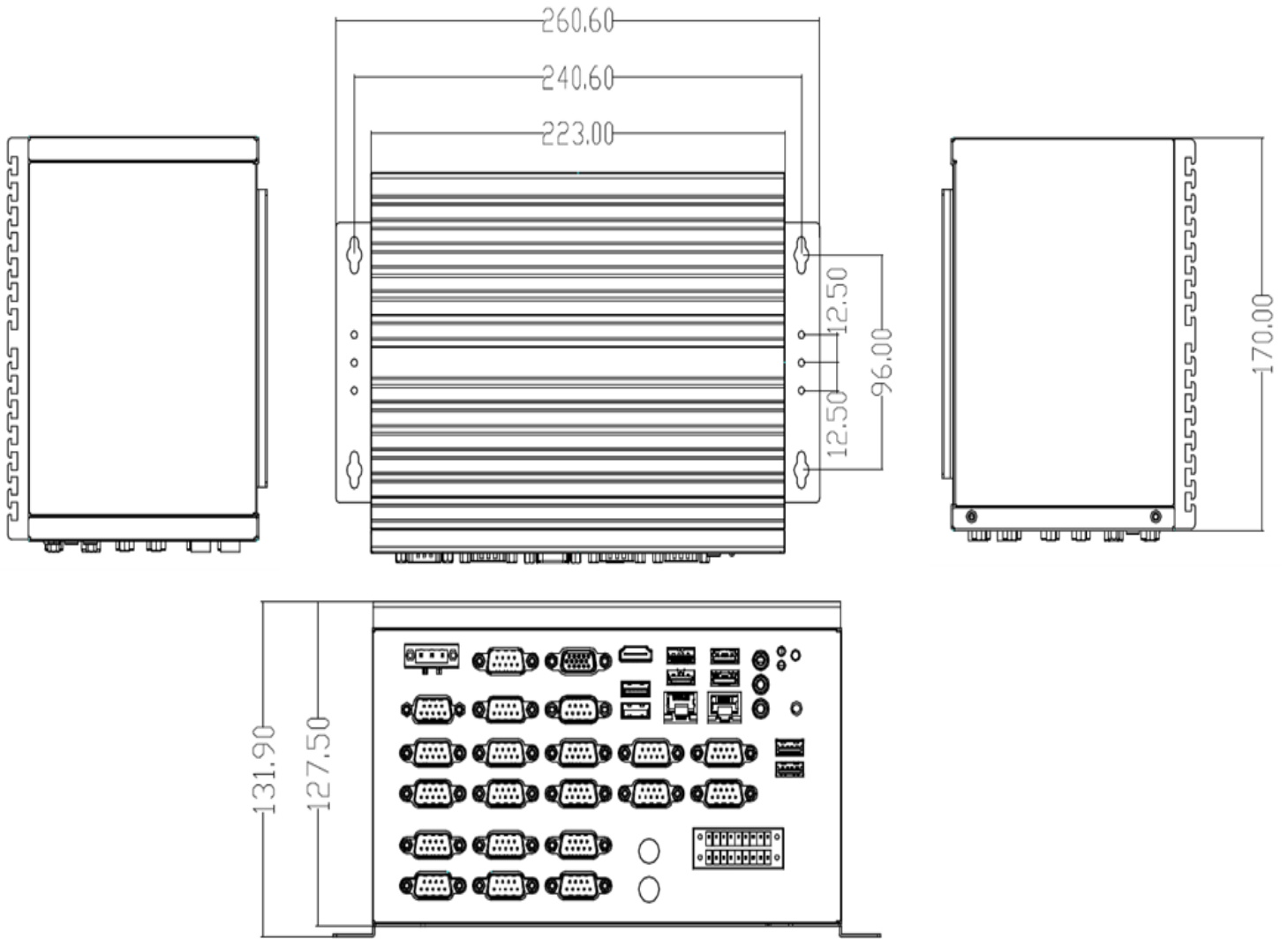
## I/O Interface

<b>Power Connector</b>	1 x 3 Pin, terminal Block with lock
<b>Serial Port</b>	20 x RS-232/485 with DB9 connectors, automatic RS-485 data flow control Support 5V/12V voltage regulation
<b>Display</b>	1 x VGA, support 1920 x 1200@60Hz 1 x HDMI 1.4b, support 3840 x 2160@30Hz
<b>LAN Port</b>	2 x RJ45, 10/100/1000 Mbps
<b>USB Port</b>	4 x USB3.0 Ports, 4 x USB2.0 Ports
<b>Audio</b>	MIC, Line-in, Line-out
<b>Digital I/O</b>	16 bit programmable general purpose input/output Support 5V/12V/24V voltage regulation
<b>Power Button</b>	1 x Power Button
<b>Rest Button</b>	NA
<b>LED</b>	1 x Power LED, 1 x HDD LED

## I/O View



## Dimensions (Unit=mm)



## Accessories

Parts Number	Description
-----	HM-2000
L01AS053-F	Adapter 12V/5A 60W
LCSC408M40S-F	Screw Pack
HCSHM2000MWM01BF	Wall Mount