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

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

Environment

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

Hardware

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

I/O Interface

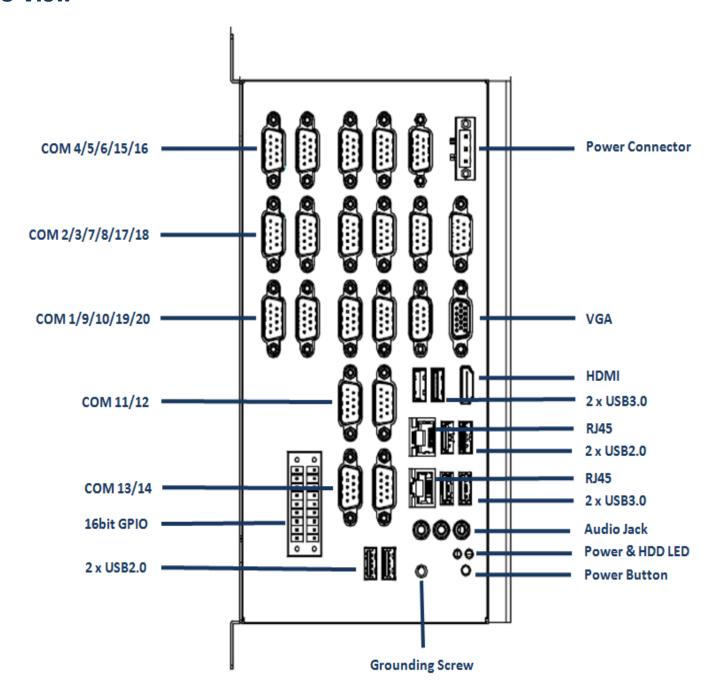|	
Power Connector	1 x 3 Pin, terminal Block with lock
Serial Port	20 x RS-232/485 with DB9 connectors, automatic RS-485 data flow control
	Support 5V/12V voltage regulation
Display	1 x VGA, support 1920 x 1200@60Hz
	1 x HDMI 1.4b, support 3840 x 2160@30Hz
LAN Port	2 x RJ45, 10/100/1000 Mbps
USB Port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

I/O View

COM 4/5/6/15/16

COM 2/3/7/8/17/18

COM 1/9/10/19/20

COM 11/12

COM 13/14

16bit GPIO

2 x USB2.0

Power Connector

VGA

HDMI
2 x USB3.0

RJ45
2 x USB2.0

RJ45
2 x USB3.0

Audio Jack
Power & HDD LED
Power Button

Grounding Screw

Dimensions (Unit=mm)