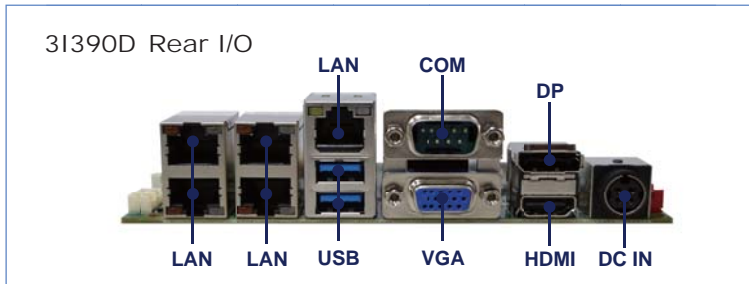




# 31390D Series

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## Back Panel



- ▶ Intel® Apollo Lake CPU, 3.5" SBC, On Board DDR3L Memory, HDMI, DP, VGA, eDP  
5 x GbE LAN (i211), 2 x Mini PCIe, 6 x USB, 2 x COM

### ▶ Features

- Intel® Apollo Lake N4200 / N3350 / E3950 CPU / chipset
- On Board 4GB DDR3L
- Display: HDMI, DP, VGA & eDP
- 5 x GbE (i211) LAN, 2 x Mini PCIe
- 6 x USB, HD Audio, 2 x COM

## Specification:

MODEL	31390D
CPU Type	Intel® Apollo Lake N4200 2.5GHZ (Quad Core) Processor Intel® Apollo Lake N3350 2.4GHZ (Dual Core) Processor Intel® Apollo Lake E3950 2.0GHZ (Quad Core) Processor
MB Chipset	
BIOS	Insyde UEFI BIOS
Graphics	Intel's 9th generation (Gen 9) graphics and media encode / decode engine, Supports DX* (9.3, 10, 11.1, 12), OpenGL* 4.3, OGL ES 3.0, OpenCL* 1.2 Supports 3-D rendering, media compositing, and video encoding.
System Memory	On Board 1600 MHz 4GB DDR3L
SATA	1 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (2 <sup>nd</sup> -option) 1 x mini card socket for mSATA
VGA/DP/DVI	1 x VGA Port, 1 x Dis Play Port (share same signal)
Audio	High Definition Audio Specification, Support Line-out / Mic-in / Line-in (option)
Audio Amplifier	Two channel Class D Audio Amplifier ; 2.1W / Ch (Typ.) into a 4ΩLoad, 1.4 W / Ch (Typ.) into a 8ΩLoad
LAN	5 x Intel i211AT GbE LAN
eDP	1 x eDP 1.3 Dual Lanes
IO Function	1 x RS232 / 422 / 485 port (external), 1 x RS232 / 422 / 485 port (internal / option)
USB	2 x USB 3.0 (external) 4 x USB 2.0 (internal)
HDMI	1 x HDMI 1.4b
DIO & WDT	Hardware digital Input & Output, 8 x DI / 8 x DO (option) Hardware Watch Dog Timer, 0~255 sec programmable
Expansion Interface	(Full Size) Mini PCIe Slot 1: PCIe / USB / mSATA interface (Full Size) Mini PCIe Slot 2: PCIe / USB interface
Power	On board DC IN +12V ; (Wide Range +9~36V-OEM option)
Dimension	146 x 102 mm (3.5 inch)
Operation Temperature	-20°C~70°C
Operation Humidity	5 ~ 95%, non-condensing
Expansion	GPS, IEEE1394, 3G / 4G, Bluetooth, WI-FI, I/O
Chassis	Box PC: TASK, TIGER, DinRail System