

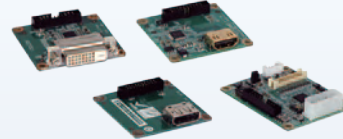
# KINO-DH810

Mini-ITX SBC with LGA1150 Intel® 4th generation Core™ i7/i5/i3/Pentium®/Celeron® CPU, DDR3, DVI-D, VGA, iDP, Dual Realtek® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio and RoHS

**New**

## iDP (IEI Internal DisplayPort)

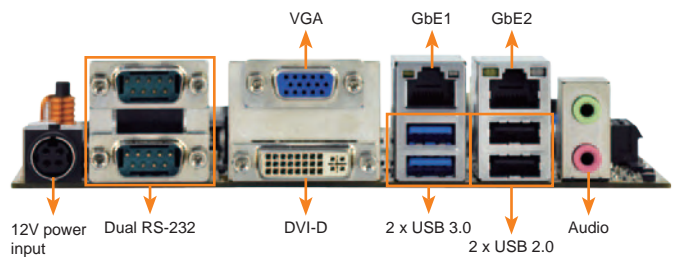
IEI provide the iDP connector on 8-series products. The iDP can drive many kind of display specification by using IEI iDP converter card like VGA, HDMI, DVI-D, LVDS and DP.



iDP converter card with bracket

### Easy Installation for Chassis

Model	Output	External Power
DP-VGA-R10	VGA	No
DP-HDMI-R10	HDMI	No
DP-DVI-R10	DVI	No
DP-LVDS-R10	LVDS	Yes
DP-DP-R10	DP	No



## Specifications

- ◆ CPU  
LGA1150 Intel® 4th generation Core™ i7/i5/i3/Pentium®/Celeron® processor supported
- ◆ System Chipset  
Intel® H81
- ◆ Memory  
Two 240-pin 1066/1333/1600 MHz dual-channel DDR3 SRAM Unbuffered SO-DIMM supported (system max. 16GB)
- ◆ BIOS  
UEFI BIOS
- ◆ Ethernet  
Dual GbE: Intel® I211-AT PCIe controller
- ◆ Graphic Engine  
Support for DX11.1 and OpenGL3.2  
Full MPEG2, VC1, AVC Decode
- ◆ Display Output  
VGA (up to 1920x1200 @ 60 Hz)  
DVI-D (up to 2560x1600 @ 60 Hz)  
iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160 @ 60 Hz)
- ◆ Super I/O  
Fintek F81866
- ◆ Audio  
Realtek ALC662 HD codec
- ◆ I/O Interfaces
 

1 x RS-422/485	1 x 6-pin wafer for PS/2 KB/MS
5 x RS-232	2 x SATA 6GB/s
2 x USB 3.0 (2x Rear I/O)	6 x USB2.0 (2x Rear I/O, 4x pin header)
- ◆ Front Panel  
1 x Front Panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- ◆ LAN LED  
2 x 2 Pin for LAN1 Link LED, LAN2 Link LED
- ◆ SM bus  
1 x 4-pin wafer
- ◆ TPM  
2 x 10-pin pinheader
- ◆ Expansion  
1 x PCIe x1 slot  
1 x full size mini PCIe card slot (support mSATA)
- ◆ Watchdog Timer  
Software Programmable support 1~255 sec. system reset
- ◆ Digital I/O  
8-bit digital I/O (4-bit input, 4-bit output)
- ◆ FAN Connector  
1 x 4-pin CPU fan connector  
1 x 4-pin system fan connector
- ◆ Power Supply  
12V only DC input  
1 x external DIN 4pin DC jack  
1 x internal 2x2-pin power connector  
Support AT/ATX mode
- ◆ Power Consumption  
+12V @ 6.03A  
(Intel® Core™ i7-4770K 3.90 GHz CPU with two 1333MHz 4GB DDR3 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimension: 170mm x 170mm
- ◆ Weight: GW: 900g/NW: 450g

## Features

1. LGA1150 Intel® 4th generation Core™ i7/i5/i3/Pentium®/Celeron® processor supported
2. DDR3 1066/1333/1600 MHz dual channel SDRAM
3. 3D micro-architecture enhancements supports for DX11.1, OCL 1.2 and OGL3.2
4. Rich media acceleration for hardware decode and encode acceleration
5. High speed I/O interface for USB3.0, SATA III and mSATA supported
6. IEI Jumper-less function

## Packing List

1 x KINO-DH810 single board computer	
2 x SATA with power output cable (P/N: 32801-000100-100-RS)	
1 x I/O shielding (P/N: 45014-0008C0-00-RS)	1 x QIG
1 x One Key Recovery CD	1 x Utility CD

## Ordering Information

Part No.	Description
KINO-DH810-R10	Mini-ITX SBC with Intel®LGA1150 Intel® Core™ i7/i5/i3, Celeron® CPU, DDR3, DVI-D, VGA, DP, Dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio and RoHS
32000-070301-RS	Dual USB 2.0 cable
32006-001100-100-RS	KB/MS Y cable
32200-000049-RS	RS232 cable, 200mm
32205-003800-100-RS	RS-422/485 cable, 200mm
CF-1156A-RS-R11	High-performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-1156E-RS-R11	High-performance LGA1155/LGA1156 cooler kit, 95W
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17