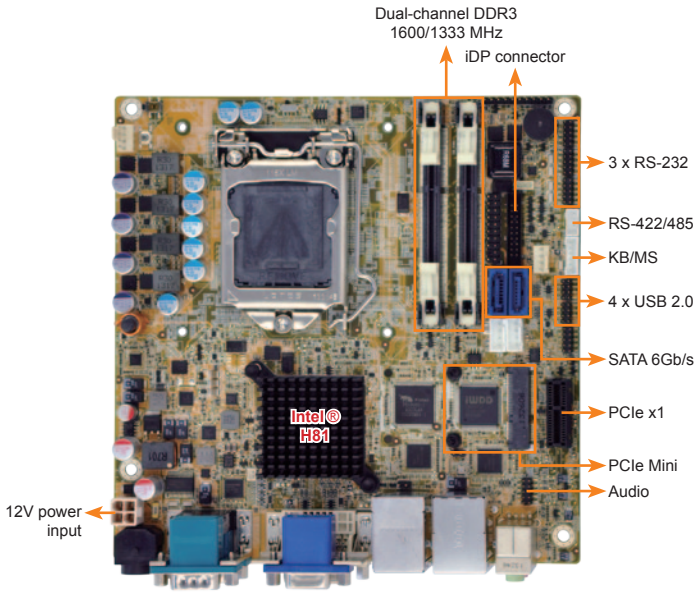
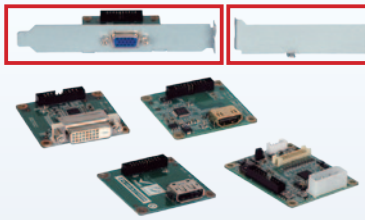
KINO-DH810

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



iDP (IEI Internal DisplayPort)

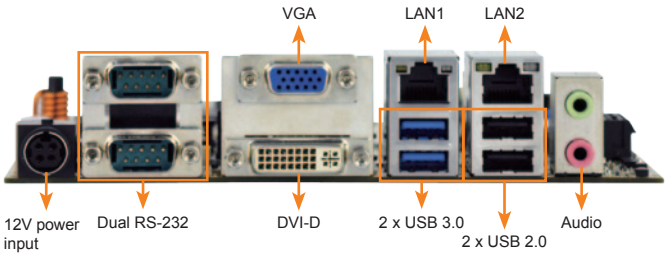
The iDP connector is provided on the IEI 8-series products. Through the IEI iDP converter cards, the iDP connector can support different display specifications, such as VGA, HDMI, DVI-D and LVDS.



iDP converter cards with brackets

Easy Installation on the 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® or Celeron® processor supported
- System Chipset
  Intel® H81
- Memory
  Two 204-pin 1600/1333MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 16GB
- BIOS
  UEFI BIOS
- Ethernet
  Dual LAN: Intel® I211-AT PCIe controller
- Graphics Engine
  Intel® HD Graphics Gen 7.5 supports DX11.1 and OpenCL 1.2, OpenGL 3.2
  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 Audio 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 (2 on rear I/O) — 6 x USB 2.0 (2 on rear I/O, 4 by pin header)
- Front Panel
  1 x Front panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- LAN LED
  2 x 2-pin headers for LAN1 Link LED, LAN2 Link LED
- SMBus
  1 x 4-pin wafer
- TPM
  1 x TPM connector (2x10 pin)
- Expansion
  1 x PCIe x1 slot
  1 x Full-size PCIe Mini card slot (supports mSATA, SATA 3Gb/s signal only)
- 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 DC jack (4-pin DIN)
  1 x Internal 4-pin (2x2) 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
- Storage Temperature: -30°C ~ 70°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 170mm x 170mm
- Weight: GW: 900g/NW: 450g

Features

1. LGA1150 Intel® 4th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported
2. DDR3 1066/1333/1600 MHz dual-channel SDRAM
3. 3D micro-architecture enhancement supports 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 USB 3.0, SATA 6Gb/s and mSATA
6. IEI Jumper-less function

Packing List

1 x KINO-DH810 single board computer	
2 x SATA with power output cable (P/N: 32801-000100-300-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
32000-023800-RS	KB/MS Y cable
32200-000049-RS	RS-232 cable, 200mm
32205-003800-300-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-R11	High-performance LGA1155/LGA1156 cooler kit, 95W
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17