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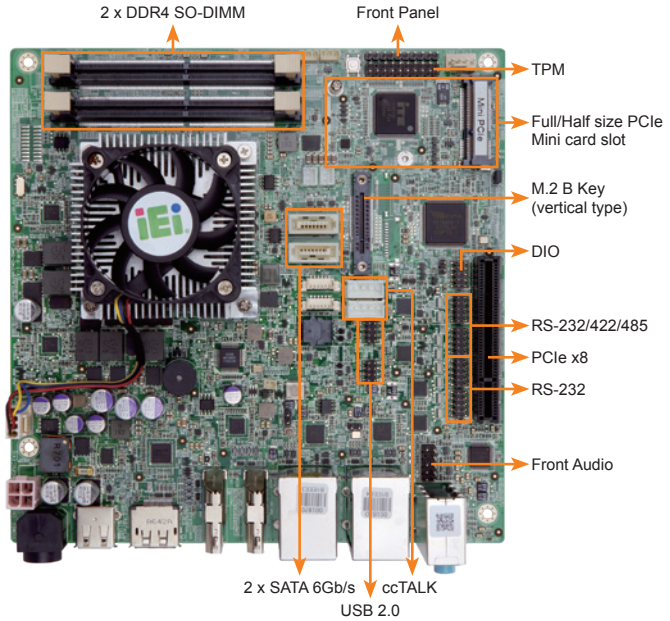
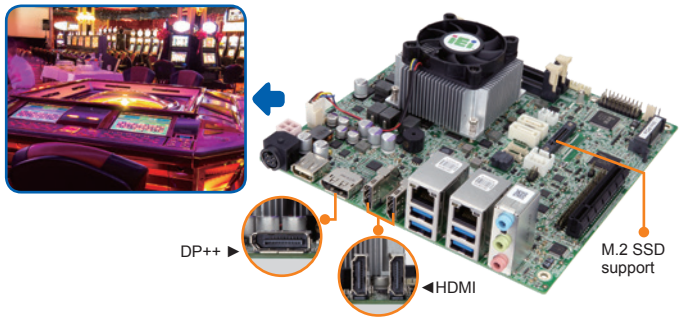
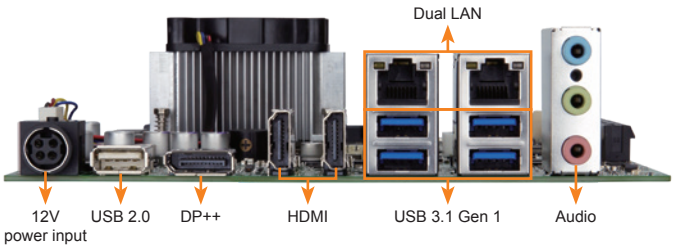
gKINO-DMF

Mini-ITX SBC supports AMD Merlin Falcon SoC Proccessor, HDMI 2.0, M.2, PCIe Mini, SATA 6Gb/s, USB 3.1 Gen 1 (5Gb/s), HD audio and RoHS







Specifications

- SoC
  FP4 BGA supports AMD Merlin Falcon SoC
  RX-421BD on-board SoC (2.1GHz, quad-core, 2MB cache, TDP=35W)
  RX-216GD on-board SoC (1.6GHz, quad-core, 1MB cache, TDP=15W)
- BIOS
  UEFI BIOS
- Memory
  Two 260-pin 2400MHz dual-channel DDR4 non-ECC unbuffered SO-DIMMs support up to 64 GB
- Graphics Engine
  AMD Radeon HD 10000graphic,3rd Gen. graphic core,support DX 12, HSA 2.0
  UVD v6 decode for H.265 MPEG2/4, VC-1, MVC
  VCE v3.1 encode for H.254 VCE
- Display Output
  Triple independent display
  2 x HDMI 1.4 (up to 4096x2160@24Hz)
  1 x DP++ (up to 3840x2160@60Hz)
- Ethernet
  Dual GbE RTL 8111GN
- External I/O Interface
  4 x USB 3.1 Gen 1 (5Gb/s)
  1 x USB 2.0
- Internal I/O Interface
  1 x MicroSD card slot
  2 x RS-232/422/485 (2x5 pin, P=2.0)
  2 x RS-232 (2x5 pin, P=2.0)
  2 x RS-232 (support Cctalk, TTL)(1x4 pin, P=2.54)
  4 x USB 2.0 (2x4 pin, P=2.0)
  2 x SATA with 5V/12V output
- Audio
  Realtek ALC662 HD audio codec
  3 x Audio jacks (line-out, line-in, mic-in) on rear IO
  1 x Front audio (2x5-pin)
- Front Panel
  1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- LAN LED
  2 x LAN LED (1x2 pin)
- SMBUS
  1 x SMBus (1x4 pin)
- I²C
  1 x I²C (1x4 pin)
- TPM
  1 x TPM (2x10 pin)
- Digital I/O: 8-bit digital I/O (2x5 pin)
- Expansion
  1 x PCIe x 8 slot
  1 x Full size PCIe Mini card slot
- Watchdog Timer: Software programmable, supports 1~255 sec. system reset
- Chassis Intrusion Detection: 1 x Chassis intrusion connector (1x2 pin)
- Power Supply
  12V DC input
  1 x Internal power connector (2x2 pin)
  Support AT/ATX mode
  1 x External DC jack (4-pin DIN)
- FAN Connector
  1 x CPU smart fan (1x4 pin)
  1 x System smart fan (1x4 pin)
- Power Consumption
  12V@5.54A (AMD RX-421BD 2.1GHz CPU with 2400 MHz 16GB DDR4 memory)
- Storage Temperature: -10°C ~ 70°C
- Operating Temperature: 0°C ~ 60°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 170mm x 170 mm
- Weight: GW: 1100g / NW: 700g
- CE/FCC compliant

Features

- Mini ITX form factor with AMD Merlin Falcon processor supports dual-channel DDR4 SO-DIMMs
- Triple independent display support via dual HDMI and DP++
- Full size PCIe Mini slot and vertical type M.2 B key slot for expansion
- COM, Cctalk, TTL, and USB 3.1 Gen 1 (5Gb/s) support
- IEI one key recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x gKINO-DMF single board computer with CPU cooler
1 x SATA cable
1 x I/O shielding
1 x QIG

Ordering Information

Part No.	Description
gKINO-DMF-421-R10	Mini-ITX SBC supports AMD RX-421BD on board SoC (quad-core 2.1GHz, 35W), DDR4 ,triple independent displays,HDMI/DP, dual GbE, SATA 6Gb/s, USB3.0, PCIe Mini, M.2,HD audio and RoHS
gKINO-DMF-216-R10	Mini-ITX SBC supports AMD RX-216GD on board SoC (dual-core 1.6GHz, 15W), DDR4 ,triple independent displays, HDMI/DP, dual GbE, SATA 6Gb/s, USB3.0, PCIe Mini, M.2, HD audio and RoHS
19800-000300-100-RS	RS-232 cable with bracket, 300mm, P=2.0
CB-USB02A-RS	Dual-port USB cable with bracket, 300mm, P=2.0
TPM-IN01-R20	20-pin Infineon TPM module, software management tool, firmware v3.17