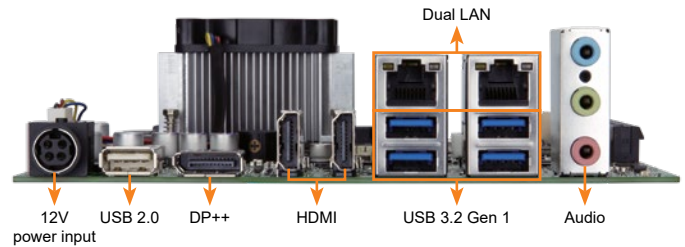
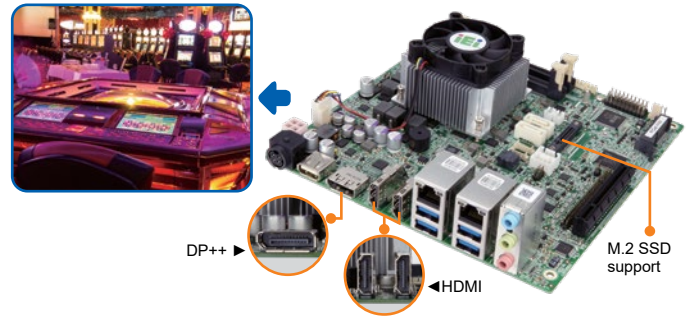
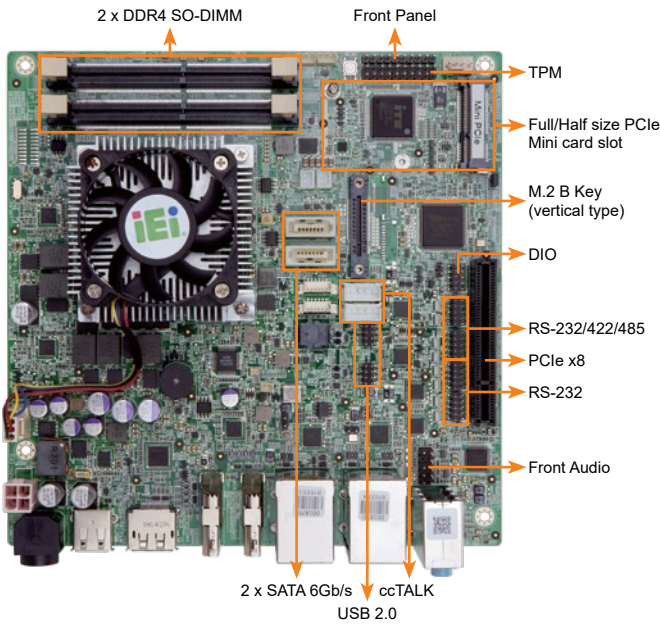


gKINO-DMF

Mini-ITX SBC supports AMD Merlin Falcon SoC Processor, HDMI 2.0, M.2, PCIe Mini, SATA 6Gb/s, USB 3.2 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)
- ◆ 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 3.2 Gen 1 (5Gb/s)
1 x USB 2.0
- ◆ Internal I/O Interface
1 x MicroSD card slot
2 x RS-232 (2x5 pin, P=2.0)
4 x USB 2.0 (2x4 pin, P=2.0)
2 x RS-232/422/485 (2x5 pin, P=2.0)
2 x RS-232 (support Cctalk, TTL)(1x4 pin, P=2.54)
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
Support AT/ATX mode
1 x Internal power connector (2x2 pin)
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 3.2 Gen 1 (5Gb/s) support

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-R11	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, USB 3.2, 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