

gKINO-DMF

Mini-ITX SBC supports AMD Merlin Falcon SoC Processor



Features

- » Mini ITX form factor with AMD Merlin Falcon processor with DDR4 memory
- » Triple display via, HDMI 1.4, DP++
- » M.2 B key support
- » Full-size PCIe mini slot

Specifications

| System | |
|--------------------------|-------------------------------------------------------------------|
| CPU | 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) |
| Memory | Two 260-pin 2400MHz dual-channel DDR4 non-ECC unbuffered SO-DIMMs |
| Memory Max. | 64GB |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 170 X 170 |
| Net Weight | 700g |
| Storage | |
| Storage | 1 x SD/MicroSD card |
| I/O Interface | |
| Display Output | 2 x HDMI :1.4 (up to 4096x2160@24Hz) |
| | 1 x Display Port :DP++ (up to 3840x2160@60Hz) |
| Ethernet | Description: Dual GbE RTL 8111GN |
| Audio | 1 x Line in :on rear IO |
| | 1 x Line out :on rear IO |
| | 1 x Mic :on rear IO |
| | 1 x Front Audio :2x5 pin |
| I/O Interface | 4 x Internal RS-232 :2 X 2x5 pin, p=2.0, |
| | 2 X Support Cctail,TTL(1 X 4 pin, p=2.54) |
| | 2 x Internal RS-232/422/485 :2x5 pin, P=2.0 |
| | 1 x External USB 2.0 |
| | 4 x External USB 3.2 Gen1x1 |
| | 4 x Internal USB 2.0 :2x4 pin, P=2.0 |
| | 1 x DIO 8-bit digital I/O (2x5 pin) |
| Expansion | 1 x PCIe x8 |
| | 1 x PCIe mini Card Slot |
| Other Features | |

| | |
|-----------------------|--------------------------------------------------------------------|
| TPM | 2x10 pin |
| Power | |
| Power Consumption | 12V@5.54A (AMD RX-421BD 2.1GHz CPU with 2400 MHz 16GB DDR4 memory) |
| Power Supply | 12V DC input |
| | 1 x Internal power connector (2x2 pin) |
| | 1 x External DC jack (4-pin DIN) |
| | Support AT/ATX mode |
| Environment | |
| Operating Temperature | 0°C ~ 60°C |
| Storage Temperature | -10°C ~ 70°C |
| Humidity | 5% ~ 95%, non-condensing |
| Certifications | |
| Safety & EMC | CE/FCC compliant |

Ordering Information

| | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |

Packing List

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