

# 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
<b>Power</b>	
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
<b>Environment</b>	
Operating Temperature	0°C ~ 60°C
Storage Temperature	-10°C ~ 70°C
Humidity	5% ~ 95%, non-condensing
<b>Certifications</b>	
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