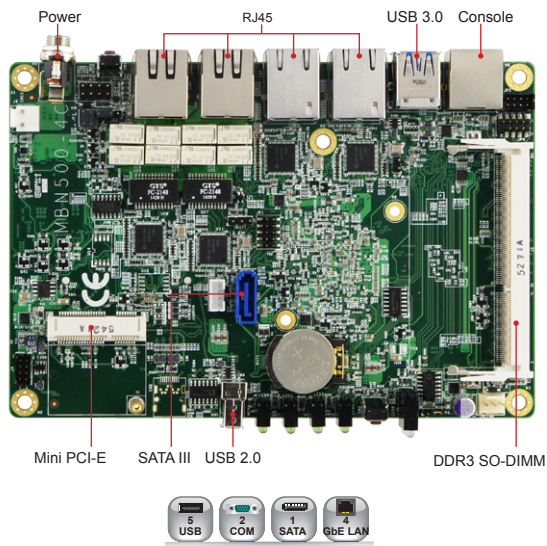


MBN500

Networking Motherboard

AMD Embedded G-series SoC / Steppe Eagle & Crowned Eagle Networking Motherboard



Features

- AMD New “Jaguar+” CPU core, up to 1.8GHz
- New Crypto Coprocessor
- 4x PCI-E GbE Ports with status LED indicator
- 1x DDR3L-1600 SO-DIMM; Max. 8GB
- 1x CFast socket (SATA 3.0), 1x Mini PCI-E socket
- Future support for DPDK

System

CPU	AMD Embedded G-series SoC, up to 1.8GHz
System Memory	1x DDR3L SO-DIMM Max. 8GB, up to 1600MHz non-ECC
System Chipset	Embedded
BIOS	AMI
Watchdog Timer	256 levels
SSD	1x CFast socket 1x SATA
H/W Monitor	Yes
Expansion Slots	1x Mini PCI-E socket

Graphics

VGA Controller	Integrated (optional)
VGA Memory	Max. shared memory - 256MB (optional)
Display Interface	Mini DisplayPort (optional)

LAN

Controller	4x Intel® I211-AT GbE controller
Bypass	LAN 3/4
Connector	4x RJ-45 on board

Multi I/O

I/O Chipset	NCT5523D 2x RS-232
USB	2 USB 3.0 ports on board 1 USB 2.0 ports on board Pin header for 2 ports (USB 2.0)
Others	4-in/out Digital I/O

Mechanical and Environmental

Dimensions	162 mm x 110 mm (6.38" x 4.33")
Max. Power Requirement	20W (TBD)
Operating Temperature	0°C ~ 60°C (32°F~140°F)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	10% ~ 90% (non-condensing)

Ordering Information

MBN500-4C	AMD GX-412TC Quad-Core (1.2GHz), 4x Intel® GbE I211-AT, LAN 3/4 Bypass, SATA connector, Mini PCI-E, CFast socket
MBN500-4CG	AMD GX-412HC Quad-Core (1.2GHz), 4x Intel® GbE I211-AT, LAN 3/4 Bypass, SATA connector, Mini PCI-E, CFast socket
USB2-7	Dual port USB 2.0 cable, 300mm
PK1-51	Console cable, 160cm