

## FM2A68M-DG3+

Unique Feature ASRock Full Spike Protection

ASRock APP Shop

CPU - Supports Socket FM2+ 95W / FM2 100W processors

Chipset - AMD A68H (Bolton-D2H)

Memory - Dual Channel DDR3 Memory Technology

- 2 x DDR3 DIMM Slots

- Supports DDR3 2400+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory

- Max. capacity of system memory: 32GB\*

- Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2

- Supports AMD Memory Profile Technology (AMP) up to AMP 2400

\*Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 32-bit OS. For Windows® 64-bit OS with 64-bit CPU, there is no such limitation.

BIOS - 64Mb AMI UEFI Legal BIOS with GUI support

- Supports "Plug and Play"

- ACPI 1.1 Compliant wake up events

- Supports jumperfree

- SMBIOS 2.3.1 support

- DRAM, CPU Voltage multi-adjustment

Audio, Video and Networking

Graphics - Integrated AMD Radeon™ R7/R5 Series Graphics in A-series APU

- DirectX 11.1, Pixel Shader 5.0 with FM2+ CPU. DirectX 11, Pixel Shader 5.0 with FM2 CPU.

- Max. shared memory 2GB

- Dual graphics output options: support DVI-D and D-Sub by independent display controllers

- Supports Dual-link DVI-D with max. resolution up to 2560x1600 @ 60Hz

- Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz

- Supports AMD Steady Video™ 2.0: New video post processing capability for automatic jitter reduction on home/online video

- Supports HDCP with DVI-D Port

- Supports Full HD 1080p Blu-ray (BD) playback with DVI-D Port

Audio - 5.1 CH HD Audio (Realtek ALC662 Audio Codec)

- Supports Surge Protection (ASRock Full Spike Protection)

LAN - PCIE x1 Gigabit LAN 10/100/1000 Mb/s

- Realtek RTL8111GR

- Supports Wake-On-WAN

- Supports Wake-On-LAN

- Supports Lightning/ESD Protection (ASRock Full Spike Protection)
- Supports LAN Cable Detection
- Supports Energy Efficient Ethernet 802.3az
- Supports PXE

#### Expansion / Connectivity

Slots - 1 x PCI Express 3.0 x16 Slot (PCI-E1@ x16 mode)

- 1 x PCI Express 2.0 x1 Slot
- 1 x PCI Slot
- Supports AMD Dual Graphics

\*PCI-E 3.0 is only supported with FM2+ CPU. With FM2 CPU, it only supports PCI-E 2.0.

Storage- 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug

Connector - 1 x Print Port Header

- 1 x COM Port Header
- 1 x Chassis Intrusion Header
- 1 x TPM Header
- 1 x CPU Fan Connector (4-pin)
- 1 x Chassis Fan Connector (4-pin)
- 1 x Power Fan Connector (3-pin)
- 1 x 24 pin ATX Power Connector
- 1 x 4 pin 12V Power Connector
- 1 x Front Panel Audio Connector
- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))
- 1 x Flexible USB 2.0 Header (Supports 2 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))

\*This Flexible USB 2.0 header allows users to connect a front USB 3.0 panel, and support two USB ports with 2.0/1.1 data rate.

Rear Panel I/O - 1 x PS/2 Mouse/Keyboard Port

- 1 x D-Sub Port
- 1 x DVI-D Port
- 4 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection))
- 2 x USB 3.0 Ports (AMD A68H (Bolton-D2H)) (Supports ESD Protection (ASRock Full Spike Protection))
- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
- HD Audio Jacks: Line in / Front Speaker / Microphone

#### Other Features / Miscellaneous

Software and BIOS Software

- ASRock A-Tuning
- ASRock Disk Health Report
- ASRock USB Key

- ASRock APP Charger
- ASRock XFast LAN
- ASRock XFast RAM
- ASRock Restart to UEFI
- ASRock X-Boost

#### UEFI

- ASRock Interactive UEFI
- ASRock Instant Boot
- ASRock Instant Flash
- ASRock Internet Flash
- ASRock Crashless BIOS
- ASRock OMG (Online Management Guard)
- ASRock UEFI System Browser
- ASRock UEFI Tech Service
- ASRock Dehumidifier Function
- ASRock Easy RAID Installer
- ASRock Easy Driver Installer

Support CD     - Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial)

Accessories     - Quick Installation Guide, Support CD, I/O Shield

- 2 x SATA Data Cables

Hardware Monitor     - CPU temperature sensing

- Chassis temperature sensing
- CPU Fan Tachometer
- Chassis Fan Tachometer
- CPU/Chassis Quiet Fan
- CPU/Chassis Fan multi-speed control
- CASE OPEN detection
- Voltage monitoring: +12V, +5V, +3.3V, Vcore

Form Factor     - Micro ATX Form Factor

- All Solid Capacitor design
- High Density Glass Fabric PCB

OS     - Microsoft® Windows® 10 32-bit / 10 64-bit / 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

\*Carrizo FM2r2 processor supports Windows® 10 64-bit / 8.1 64-bit / 7 32-bit / 7 64-bit only.

Certifications     - FCC, CE, WHQL

- ErP/EuP ready (ErP/EuP ready power supply is required)