

**PRIME A320M-K**



# Motherboard

# Package contents

Check your motherboard package for the following items.

<b>Motherboard</b>	ASUS PRIME A320M-K motherboard
<b>Cables</b>	2 x Serial ATA 6.0 Gb/s cables
<b>Accessories</b>	1 x I/O shield 1 x M.2 screw package
<b>Application DVD</b>	1 x Support DVD
<b>Documentation</b>	1 x User Manual



If any of the above items is damaged or missing, contact your retailer.

# PRIME A320M-K specifications summary

<b>CPU</b>	<p>AM4 socket for AMD Ryzen™ / 7th Generation A-series / Athlon™ processors</p> <p>Supports CPU up to 8 cores*</p> <p>* Due to CPU limitation, CPU cores supported vary by processor.</p> <p>** Refer to <a href="http://www.asus.com">www.asus.com</a> for AMD CPU support list.</p>
<b>Chipset</b>	AMD A320 chipset
<b>Memory</b>	<p><b>AMD Ryzen™ processors:</b> 2 x DIMMs, max. 32GB, DDR4 3200(O.C.)/2933(O.C.)/2666/2400/2133 MHz, ECC and non-ECC, un-buffered memory</p> <p><b>AMD 7th Generation A-series / Athlon™ processors:</b> 2 x DIMMs, max. 32GB, DDR4 2400/2133 MHz, non-ECC un-buffered memory</p> <p>Dual-channel memory architecture</p> <p>* Refer to <a href="http://www.asus.com">www.asus.com</a> for the latest Memory QVL (Qualified Vendors List).</p>
<b>Graphics</b>	<p>Integrated AMD Radeon™ R Series Graphics in the 7th Generation A-series APU</p> <p>Multi-VGA output support: HDMI, and D-Sub ports</p> <ul style="list-style-type: none"> <li>- Supports HDMI 1.4b with maximum resolution of 4096 x 2160 @24Hz / 2560 x 1600 @60Hz</li> <li>- Supports D-Sub with maximum resolution of 1920 x 1200 @60Hz</li> <li>- Maximum shared memory of 2048 MB</li> </ul>
<b>Expansion slots</b>	<p><b>AMD Ryzen™ processors:</b> 1 x PCI Express 3.0/2.0 x16 slot (max. @x16 mode)</p> <p><b>AMD 7th Generation A-series / Athlon™ processors:</b> 1 x PCI Express 3.0/2.0 x16 slot (max. @x8 mode)</p> <p><b>AMD A320 Chipset:</b> 2 x PCI Express 2.0 x1 slots</p>
<b>LAN</b>	Realtek® 8111H Gigabit LAN controller
<b>Audio</b>	<p>Realtek® ALC 887-VD2 8-Channel High Definition Audio CODEC</p> <p>* Use a chassis with HD audio module in the front panel to support an 8-channel audio output.</p>

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# PRIME A320M-K specifications summary

Storage	<p>AMD A320 Chipset</p> <ul style="list-style-type: none"> <li>- 4 x Serial ATA 6.0 Gb/s connectors with RAID 0, RAID 1 and RAID 10 support</li> </ul> <p><b>AMD Ryzen™ processors:</b></p> <ul style="list-style-type: none"> <li>- 1 x M.2 socket 3 with M Key, Type 2242/2260/2280 (PCIe 3.0 x4 and SATA modes) storage devices support</li> </ul> <p><b>AMD 7th Generation A-series / Athlon™ processors:</b></p> <ul style="list-style-type: none"> <li>- 1 x M.2 socket 3 with M Key, Type 2242/2260/2280 (SATA mode) storage devices support</li> </ul>
USB	<p><b>AMD Ryzen™ / 7th Generation A-series / Athlon™ processors</b></p> <ul style="list-style-type: none"> <li>- 4 x USB 3.1 Gen 1 ports (4 ports at back panel)</li> </ul> <p><b>AMD A320 Chipset:</b></p> <ul style="list-style-type: none"> <li>- 2 x USB 3.1 Gen 1 ports ( 2 ports at mid-board)</li> <li>- 6 x USB 2.0/1.1 ports ( 2 ports at back panel, 4 ports at mid-board)</li> </ul>
ASUS unique features	<p><b>Dependable Stability</b></p> <p><b>ASUS 5X PROTECTION III</b></p> <ul style="list-style-type: none"> <li>- ASUS SafeSlot Core: Fortified PCIe Slot prevents damage</li> <li>- ASUS LANGuard: Protects against LAN surges, lightning strikes and static-electricity discharges!</li> <li>- ASUS Overvoltage Protection: World-class circuit-protecting power design</li> <li>- ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!</li> <li>- ASUS DIGI+ VRM: 6 Phase digital power design</li> </ul> <p><b>Superb performance</b></p> <p><b>UEFI BIOS</b></p> <ul style="list-style-type: none"> <li>- Most advanced options with fast response time</li> </ul> <p><b>Easy PC DIY</b></p> <p><b>Safe motherboard mounting</b></p> <ul style="list-style-type: none"> <li>- Component-free areas to minimize damage risk</li> </ul> <p><b>Q-Design</b></p> <ul style="list-style-type: none"> <li>- ASUS Q-DIMM</li> <li>- ASUS Q-Slot</li> </ul> <p><b>UEFI BIOS EZ Mode</b></p> <ul style="list-style-type: none"> <li>- featuring friendly graphics user interface</li> <li>- ASUS CrashFree BIOS 3</li> <li>- ASUS EZ Flash 3</li> </ul>
ASUS Quiet Thermal Solution	<p><b>Quiet Thermal Design:</b></p> <ul style="list-style-type: none"> <li>- Stylish Fanless Design: Chipset Heat-sink solution</li> <li>- ASUS Fan Xpert</li> </ul>

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## PRIME A320M-K specifications summary

<b>Rear panel I/O ports</b>	<ul style="list-style-type: none"> <li>1 x PS/2 keyboard port (purple)</li> <li>1 x PS/2 mouse port (green)</li> <li>1 x HDMI port</li> <li>1 x D-Sub port</li> <li>1 x LAN (RJ-45) port</li> <li>2 x USB 2.0/1.1 ports</li> <li>4 x USB 3.1 Gen 1 ports</li> <li>3 x Audio jacks support 8-channel audio output</li> </ul>
<b>Internal connectors</b>	<ul style="list-style-type: none"> <li>1 x USB 3.1 Gen 1 connector supports additional 2 USB 3.1 Gen 1 ports</li> <li>2 x USB 2.0/1.1 connectors support additional 4 USB 2.0/1.1 ports</li> <li>1 x M.2 socket 3 for M Key and type 2242/2260/2280 devices</li> <li>4 x SATA 6.0Gb/s connectors</li> <li>1 x COM connector</li> <li>1 x CPU Fan connector</li> <li>1 x Chassis Fan connector</li> <li>1 x Front panel audio connector</li> <li>1 x 24-pin EATX power connector</li> <li>1 x 4-pin ATX 12V power connector</li> <li>1 x 2-pin Clear CMOS header</li> <li>1 x S/PDIF out connector</li> <li>1 x Speaker connector</li> <li>1 x System panel connector</li> </ul>
<b>BIOS features</b>	<p>128 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.0, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, ASUS CrashFree BIOS 3, My Favorites, Last Modified log, F12 PrintScreen, ASUS DRAM SPD (Serial Presence Detect) memory information, F6 Qfan Control</p>
<b>Manageability</b>	<p>WfM 2.0, DMI 3.0, WOL by PME, PXE</p>
<b>Support DVD</b>	<ul style="list-style-type: none"> <li>Drivers</li> <li>ASUS utilities</li> <li>ASUS Update</li> <li>Anti-virus software (OEM version)</li> </ul>
<b>OS support</b>	<p>Windows® 10 (64-bit)</p>
<b>Form factor</b>	<p>uATX form factor: 8.9" x 8.7" (22.6 cm x 22.1 cm)</p>




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Specifications are subject to change without notice.

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