



### Feature

- Onboard AMD Ryzen™ Embedded V2000 Processor
- Onboard LPDDR4x 3200 MT/s up to 16GB
- HDMI 1.4b x 1. eDP x 1
- 2.5 GbE RJ45 x 1 , GbE RJ45 x 1
- USB 3.2 Gen2 x 2 , USB 2.0 x 4
- M.2 M key 2280 (PCIe[x2]) x 1 ,PCIe[x4] Gen3 x 1 (by FPC)
- COM Port x 2 , DIO 8 bit , SATA 3 x 1
- DC Jack. 12V in

### Specification

SYSTEM	
<b>FORM FACTOR</b>	84mm x 55mm, Single board computer
<b>CPU</b>	AMD Ryzen™ Embedded V2718 with Radeon™ Graphics , AMD Ryzen™ Embedded V2516 with Radeon™ Graphics
<b>CPU TDP</b>	15W, TDP-up to 25W : V2718 / V2516
<b>CHIPSET</b>	Integrated with AMD Ryzen™ Embedded SoC
<b>MEMORY TYPE</b>	Onboard LPDDR4x, 3200MHz up to 16GB
<b>BIOS</b>	AMI BIOS, UEFI
<b>WAKE ON LAN</b>	Yes
<b>WATCHDOG TIMER</b>	255 Levels
<b>SECURITY</b>	fTPM
<b>RTC BATTERY</b>	Lithium Battery 3V/240mAh
<b>DIMENSION (L X W)</b>	3.31" x 2.17" (84 mm x 55 mm)
POWER	
<b>POWER REQUIREMENT</b>	Normal: +12V
<b>POWER SUPPLY TYPE</b>	AT/ATX
<b>CONNECTOR</b>	DC Jack Connector
DISPLAY	
<b>GRAPHIC CONTROLLER</b>	AMD Radeon™ Graphics
<b>DISPLAY INTERFACE</b>	HDMI 1.4b x 1 (Up to Resolution 1920 x1080) , eDP x 1
<b>MULTIPLE DISPLAY</b>	Up to Dual Displays

EXTERNAL I/O	
<b>ETHERNET</b>	REALTEK RTL8111H, 10/100/1000Base,RJ-45 x1 , Intel® i225LM, 10/100/2500Base,RJ-45 x1
<b>USB</b>	Rear I/O : USB3.2 Gen2 Type A x 2
<b>VIDEO</b>	HDMI 1.4b x 1
INTERNAL I/O	
<b>USB</b>	USB2.0 x 4 (Pin Header)
<b>SERIAL PORT</b>	RS 232/422/285 x 2 (Pin Header)
<b>VIDEO</b>	eDP x 1
<b>SATA</b>	SATA 3 x 1 , +5V SATA Power Connector x 1
<b>DIO/GPIO</b>	8-Bit
<b>SMBUS/I2C</b>	Optional
<b>FAN</b>	Smart Fan x1
<b>FRONT PANEL</b>	SATA LED, PWR LED, Power Button, Buzzer, Reset
EXPANSION	
<b>M.2</b>	M.2 2280 M key (PCIe[x2]) x 1 , PCIe[x4] Gen3 (via FPC) x 1
ENVIRONMENT & CERTIFICATION	
<b>OPERATING TEMPERATURE</b>	32°F ~ 140°F (0°C ~ 60°C)
<b>STORAGE TEMPERATURE</b>	-40°F ~ 176°F (-40°C ~ 80°C)
<b>OPERATING HUMIDITY</b>	0% ~ 90% relative humidity, non-condensing
<b>EMC</b>	CE/FCC Class A

## Packing List

- de next-V2K8 MB x 1

## Ordering Information

- **DN-V2K8-A02-TBD**  
denext.V2718.LPDDR4X 16G.2LAN.SATA.  
6USB.HDMI.eDP.PCIe.12V.A02

## Optional Accessories

- **de next-FAN01**  
CPU Cooler of de next-TGU8 & de next-V2K8
- **PER-T642(TBD)**  
Adaptor Card for M.2 B key 2242 & M.2 E key 2230
- **PER-T643 (TBD)**  
Adaptor Card for M.2 B key 3052 (with SIM) & M.2 B key 2242

## Block Diagram

