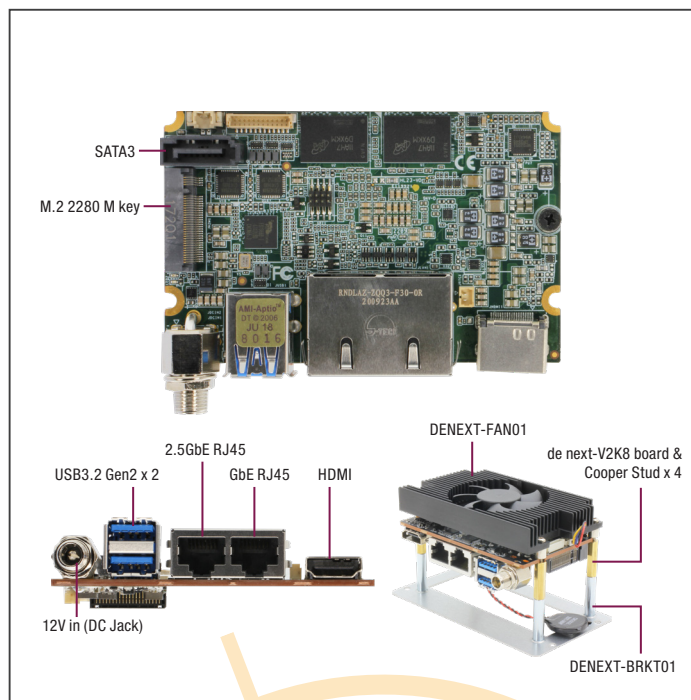


de next-V2K8

86mm x 55mm Single Board with AMD Ryzen™ Embedded V2000 Series Processors

Distributed by:



Features

- Onboard AMD Ryzen™ Embedded V2718/V2516 Processor
- Onboard LPDDR4x 3200MHz, up to 16GB
- HDMI 1.4b x 1, eDP x 1
- 2.5GbE x 1, GbE x 1
- USB 3.2 Gen 2 x 2, USB 2.0 x 4
- M.2 2280 M-Key x 1 (PCIe [x2]), FPC (PCIe [x4] x 1)
- COM Port x 2, DIO 8-bit, SATA III x 1
- 12V-In DC Jack

INTERNAL I/O	
USB	USB 2.0 x 4 Note : USB2.0 x 2 shared with adapter card PER-T642 / PER-T643. (de next-V2K8-A11 only)
SERIAL PORT	COM1 , COM2 (RS232/422/485, support 5V/RI)
VIDEO	eDP 1.4 x 1
SATA	SATA 6.0 Gbps x 1 with +5V SATA Power Connector x 1
AUDIO	—
DIO/GPIO	GPIO 8 bits
SMBus/I2C	Optional
Touch	—
FAN	4 Pin Smart Fan
SIM	—
Front Panel	Power Button, Reset Button, Power LED, SATA LED, Buzzer
Others	—
EXPANSION	
Mini PCI-E/mSATA	—
M.2	M.2 2280 M-key x 1 (PCIe[x2] x 1 or PCIe[x1] x 2, selected by BIOS)
Others	FPC Connector x 1 (PCIe 3.0 [x4] x 1)
ENVIRONMENT & CERTIFICATION	
OPERATING TEMP	32°F ~ 140°F (0°C ~ 60°C)
STORAGE TEMP	-40°F ~ 176°F (-40°C ~ 80°C)
OPERATING HUMIDITY	0% ~ 90% relative humidity, non-condensing
MTBF (HOURS)	609,263
EMC	CE/FCC Class A

Specifications

SYSTEM	
FORM FACTOR	86mm x 55mm, Single Board Computer
CPU	AMD Ryzen™ Embedded V2000 Series Processor AMD Ryzen™ Embedded V2718 with Radeon™ Graphics (8C/16T, 1.7GHz, 25W) AMD Ryzen™ Embedded V2516 with Radeon™ Graphics (6C/16T, 2.1GHz, 25W)
CHIPSET	Integrated with AMD SoC
MEMORY TYPE	Onboard LPDDR4x 3200 , up to 16GB
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	fTPM
RTC BATTERY	Lithium Battery 3V/240mAh
DIMENSION	3.38" x 2.17" (86mm x 55mm)
OS SUPPORT	Windows 10 (64bit) Ubuntu 22.04 (kernel 5.15)
POWER	
POWER REQUIREMENT	+12V
POWER SUPPLY TYPE	AT/ATX
CONNECTOR	DC Jack Connector (Optional : Phoenix 2-Pin Connector)
POWER CONSUMPTION	V2718 , LPDDR4 16GB, 3.07A @12V, 36.84W (TYPICAL) V2718 , LPDDR4 16GB, 3.92A @12V, 47.04W (MAX)
DISPLAY	
CONTROLLER	AMD V-Series V2000 with Radeon™ Graphics
LVDS/eDP	eDP 1.4 x 1 , up to 3840 x 2160
Display Interface	HDMI 1.4 x 1 , up to 3840 x 2160@30Hz
Multiple Display	2 Simultaneous Displays
AUDIO	
CODEC	—
AUDIO INTERFACE	—
Speaker	—
EXTERNAL I/O	
ETHERNET	Realtek RTL8111, 1GbE RJ-45 x 1 Intel® i226, 2.5GbE RJ-45 x 1
USB	USB 3.2 Gen 2 x 2
SERIAL PORT	—
VIDEO	HDMI 1.4b x 1

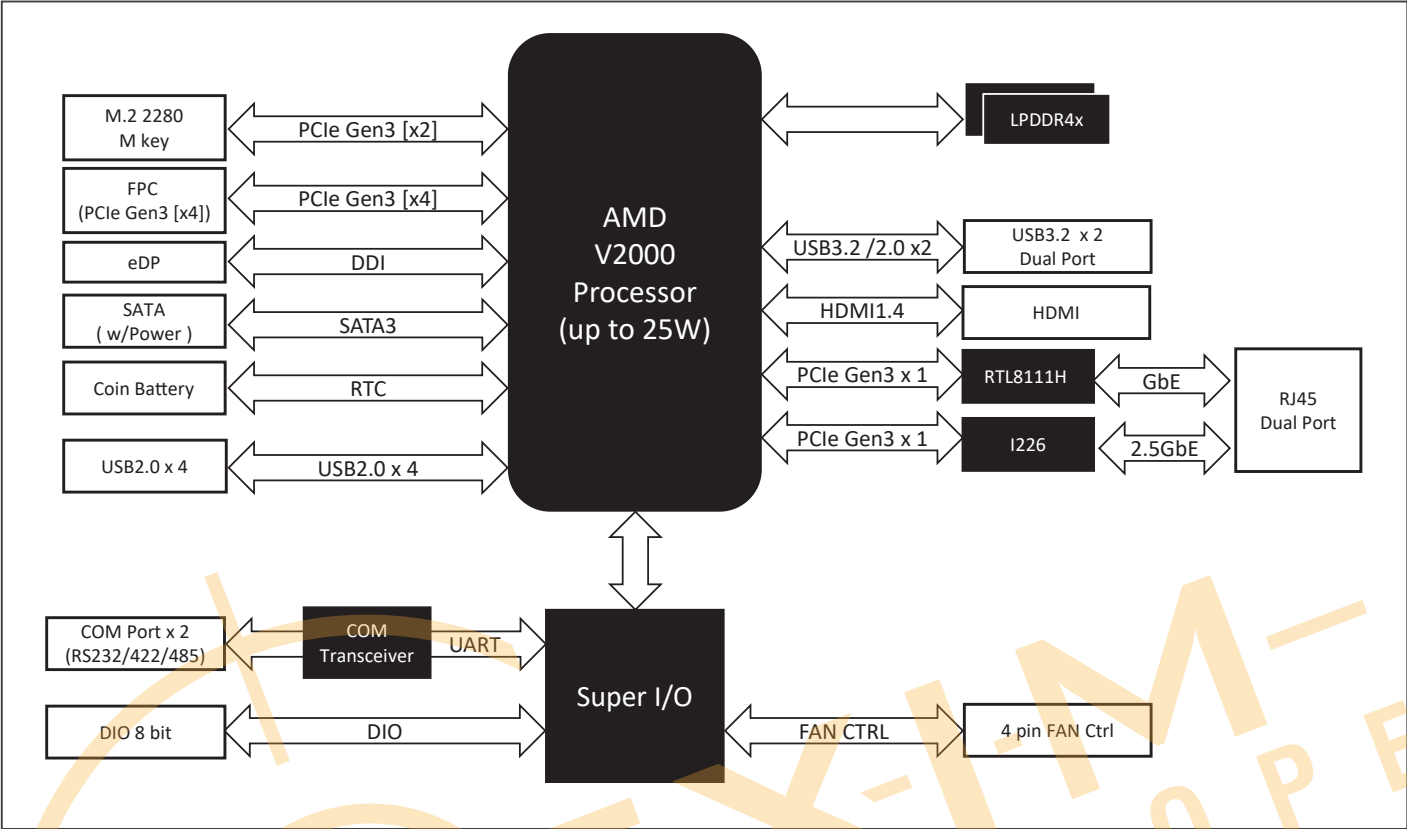
Optional Accessories

- 170X000512**
de next 40 pin cable for USB2.0 x 4, COM Port x 2, DIO 8 bit
- 170X000603**
Front Panel Cable for de next use.Length 10 cm
- 1709070200**
SATA Cable,180D.Length 20cm
- 170X000322**
SATA Power Cable.Length 6cm
- 170X000577**
de next cable for USB 2.0 x 2, COM Port x 2, DIO 8 bit, adapter card connector
- DENEXT-FAN01**
CPU cooler for de next-TGU8 / de next-V2K8
- DENEXT-BRKT01**
Easy bracket for de next series use
- DENEXT-HSP01**
Heatspreader for de next-TGU8/V2K8
- PER-T642-A03-0001**
M.2 M 2280 adaptor card to M.2 B key 2242 & M.2 E key 2230 (Only support DENEXT-V2K8-A11)
- PER-T643-A01-0001**
M.2 M 2280 adaptor card to M.2 B key 2242 & M.2 B key 3052 (Only support DENEXT-V2K8-A11)

Packing List

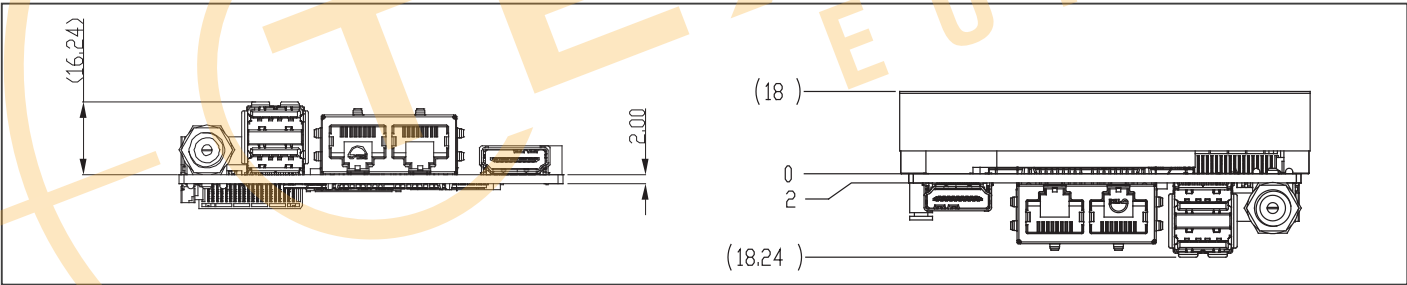
- de next-V2K8 x 1
- Copper Stud.M2.5 x 4

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Display	Storage	LAN	USB	COM Port	Expansion	TPM	Power	Operating Temperature	Others
DENEXT-V2K8-A11-0001	V2718	Onboard LPDDR4x 16GB	eDP x 1 , HDMI x 1	SATA 6.0 Gbps x 1	2.5GbE x 1, GbE x 1	USB 3.2 Gen 2 x 2 , USB 2.0 x 4	RS232/422/485 x 2	M.2 2280 M-key x 1 , FPC Connector x 1	fTPM	+12V in (DC Jack)	0°C ~ 60°C	GPIO 8 bits
DENEXT-V2K8-A11-0002	V2516	Onboard LPDDR4x 16GB	eDP x 1 , HDMI x 1	SATA 6.0 Gbps x 1	2.5GbE x 1, GbE x 1	USB 3.2 Gen 2 x 2 , USB 2.0 x 4	RS232/422/485 x 2	M.2 2280 M-key x 1 , FPC Connector x 1	fTPM	+12V in (DC Jack)	0°C ~ 60°C	GPIO 8 bits
DENEXT-V2K8-A11-0003	V2718	Onboard LPDDR4x 16GB	eDP x 1 , HDMI x 1	SATA 6.0 Gbps x 1	2.5GbE x 1, GbE x 1	USB 3.2 Gen 2 x 2 , USB 2.0 x 4	RS232/422/485 x 2	M.2 2280 M-key x 1 , FPC Connector x 1	fTPM	+12V in (2 Pin Phoenix Connector)	0°C ~ 60°C	GPIO 8 bits
DENEXT-V2K8-A11-0004	V2516	Onboard LPDDR4x 16GB	eDP x 1 , HDMI x 1	SATA 6.0 Gbps x 1	2.5GbE x 1, GbE x 1	USB 3.2 Gen 2 x 2 , USB 2.0 x 4	RS232/422/485 x 2	M.2 2280 M-key x 1 , FPC Connector x 1	fTPM	+12V in (2 Pin Phoenix Connector)	0°C ~ 60°C	GPIO 8 bits

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Texim Europe B.V. its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Texim"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Texim makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product.

It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
E: austria@texim-europe.com



Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com