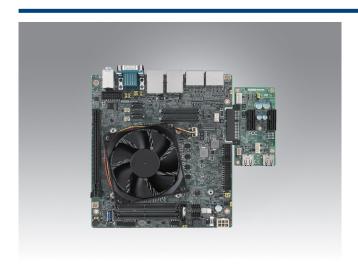
DPX-M266

AMD Ryzen™ Embedded R2000 Multi-media Gaming Board



Features

- High performance AMD Ryzen™ Embedded R2000 processors
- Quad and dual core APUs up to 3.35 (3.7) GHz
- Supports 4 display outputs (4 x DP v1.2)
- PCle x16 graphics card slot
- Modular Expansion Port Edge connector
- Storage 2 x SATA / CFast, 1 x M.2
- Pre-boot Media Validation support
- RS232, ccTalk, TTL, ID003, I2C, intrusion and DIs











Introduction

The DPX-M266 is a versatile gaming platform based on AMDs RyzenTM Embedded R2000 processors. The box did so a high performance multi-media engine optimized for the needs of gaming OEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming OEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming oEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming oEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming oEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming oEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming oEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming oEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming oEMs. The modular expansion architecture allows cost effective modules to be added for the needs of gaming oEMs. The needs o

Specifications

	СРИ	AMD Ryzen™ Embedded R2000 processors, Dual and Quad Core APUs up to 3.35 (3.7) GHz
Processor System	TDP (W)	Up to 54W
	BIOS	AMI UEFI SPI with Media valication/ OPROM support
	PCle x16	PCle x16 slot, G in 3 (x8 electrical x4 with 2312 APU)
Expansion Slot	Modular Expansion	2x PCle x; Gen 0 lanes, 2x US 2.0 pc 5, 5x intrusion/DI inputs. "Golden 1.2eer". (R2312 APU supports 1x PCle, 2 USB)
	Technology	Dual Gnannel DDR4 2666 MT/s SCRAM (2400 with R2312)
Memory	Max. Capacity	32 GB / 16 GB per SO-DIMM
,	Socket	2x 260 PIN DDR4 SO-DIMM (Non-ECC or ECC supported, BIOS selectable)
	Controller	Radeon™ VEGA GPU with up to 8 compute units
	VRAM	Shared system memory
Graphics	Display Port	4x DP++ 1.2 ports supporting 4K displays (3 with R2312)
	Features	Direct X 12, OpenGL 4.6, EGL 1.5, Vulcan, HVEC & VP9, 10-bit decode, H.264 8-bit decode
	Interface	10/100/1000 Mbps
Ethernet	Controller	2x GbE LAN, (PXE boot supported, BIOS Enable/Disable selectable). (1 LAN with R2312 APU)
	Connector	2 x RJ-45 (1 with R2312)
	Max Data Rate	600 MB/s (SATA 3.0)
SATA/ CFast	SATA/CFast	2 x SATA 3.0, 2 x CFast (Jumper select any two SATA devices)
M.2 (NVME)	M.2	1 x M.2 (M-key) for SSD 2280 size. PCle X2 or x4. Up to 16GB/s speed.

	DP/DP++	2 x dual connector (4 ports)
IO Panel	LAN/USB	2 x USB/LAN towers containing 1 x Gigabit LAN & 2 x USB3.1/2.0, 1 Gigabit LAN & 2x USB2.0. (BIOS – can disable bootable USB devices)
	Audio	Audio jack tower (Mic-in, Line-out (L,R), Line-in(L,R))
	Serial	2 x (RS-232 full signal, supports 9 bit data) COM1 & COM2
	USB	1 x vertical USB 3.1/2.0 Type A, 2 x USB2.0 box header
	Serial	COM connector: 4 serial ports; COM3 – Full RS232 /CCTalk, COM4 – TTL/ RS232/ID003 Tx/Rx, COM5 – RS232/ RS485, COM6 RS232 Tx/Rx
	SATA	2 x SATA 3.0, 2x SATA power 2 pin header (supports two devices)
	CFast	2 x CFast (Each CFast/SATA selection is jumper selectable)
	M.2	1 x M.2 supporting M2280 form factor devices
Internal	LPC	LPC bus connector for PORT80 debug
Connector	Audio	Audio connector for Mic In, Line-In, and Line-out, SPDIF-In, SPDIF-Out
	BIOS	Proprietary BIOS module connector for the field verifiable removable BIOS module, optional 1 x WSOIC clamshell
	Intrusion Input	Connector for Intr#0. (Intrusion inputs 1-5 are available on the side expansion bus)
	DC Power	12 pin 12VDC power connector. Power and Reset header for remote control
	CPU and System Fans	4 pin PWM controlled 'smart fan' header
	Battery	CR2032 battery holder with off board solder hoops for an external battery connection

Specifications (Cont.)

Embedded Microcontroller	PuCLite	Protected I ² C port; Precision RTC; Intrusion monitoring; Event logging; System health monitoring; Unique serial number; Power up timer; accessible using DirectPCI or ECPL
	Output	System reset, Programmable 1 ~ 255 sec/min
	TPM (standard)	TCG TPM 2.0 device (soldered).
Watchdog Timer Security	BIOS	BIOS customizations, write protect, Media Validation
	Intrusion Inputs	6x intrusion inputs. Logged. Power on and battery operation.
	Precise RTC	Optional precise RTC device

Power Requirements	Input power	12VDC single rail
Environment	Temperature Operating	0 ~60° C (depends on CPU speed and cooler solution) Non-Operating: -40 ~ 85° C (-40 ~ 185° F)
Software	OS	Windows 11/10 IoT Enterprise, Linux
Physical Characteristics	Dimensions	Modified "Mini-ITX" - 170 mm x 185 mm (6.69" x 7.28"). Standard width, mounting holes, I/O plate and slot locations. Extended length.

Benefits

Good integrated graphics and PCIe x16 for discrete graphics card
Versatile expansion options
Designed for the Gaming Industry
Low power
Long lifecycle

Optional Accessories

M.2 modules, CFast, SATA DOM, SSD storage devices	
Full system chassis	
Range of PCIe graphics cards	
Various I/O module	

Software Products

Media Validation Toolkit	
DPX Connector SDK	
DPX Diagnostics	
DPX SAS Engine	
DirectPCI SDK & Run-time	

OEM Customization and Product Development

At vantech-Innocore is part of the Advantech Co., Ltd. Group of Companies. Auvantech-Innocore specializes in the fields of PC-based hardware design and software development. Our in-depth knowledge and global resources make us your

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Front I/O



System Products



Modular Expansion



