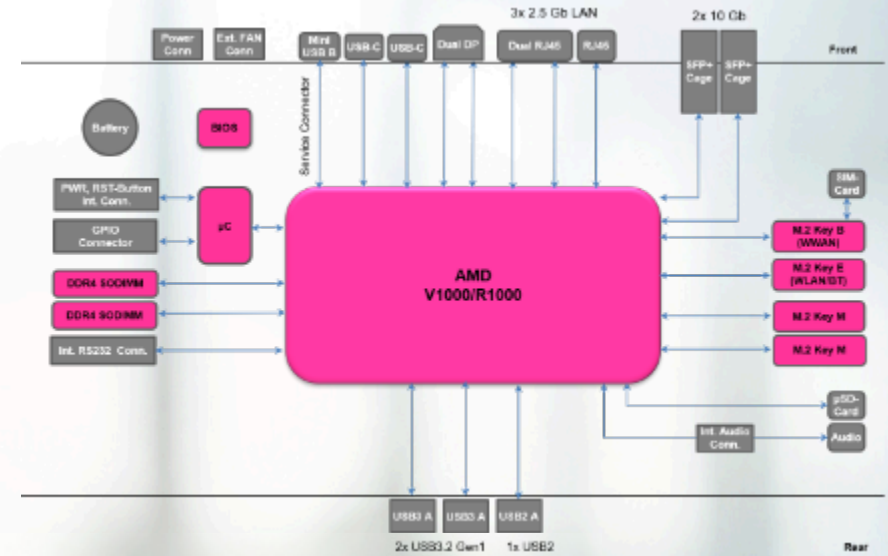


PROFIVE® GS2_R

APPLICATIONS

Designed for fanless applications, the **PROFIVE® GS2_R** single board computer finds its field of work in stationary and mobile devices:

- _ Rugged Industrial Systems
- _ Network Security and Control
- _ Edge-to-Cloud Storage
- _ Switching and Routing
- _ Factory Automation
- _ Machine Vision
- _ Human-Machine Interfaces
- _ Public Terminals
- _ Vending Machines



HIGH QUALITY
MADE IN GERMANY

AMD
RYZEN
Embedded



10 years availability
according to CPU
manufacturers
specification

E.E.P.D. 
...just embedded!

Multi-USB 119x186

Specification	
CPU / GPU	AMD Ryzen™ Embedded V1000, R1000 series, max. 45 W supported AMD Radeon™ Graphics
BIOS	UEFI
Max. memory	R1000,V1000: up to 2x 16GB dual channel DDR4-3200 SO-DIMM memory; industrial temp. CPU variants with ECC support
Ethernet ports	Up to 3x Intel® I225-LM with 2,5 Gbit/s with IEEE1588, TSN-support, Wake-On-Lan supported by one port I226-IT: -40°C to +85°C ambient industrial temp. (V1404I); SFP+: Up to 2x 10Gbit/s SFP+ modules
SD-Card	1x microSD XC Card Slot, supports A1 Application Performance Class, UHS-Class 1
M.2 socket	1x Key M, 2280, PCIe Gen3 x4 NVMe, 1x Key M, 2280, PCIe Gen3 x2 NVMe, up to 1x Key B, 3042/3052, USB2 / USB3 depending on CPU variant, e.g. WWAN with micro SIM-Card socket 1x Key E, 2230, PCIe Gen3 x1, USB2, e.g. WLAN/BT (optional)
I/O's	4x GPIO (3.3V) and max. 3x GPIO with PWM (3,3V/50kHz)
Display output	2x Display Port, up to 4096 x 2160 @ 60 Hz up to 2x USB C Alt Mode, up to 4096 x 2160 @ 60 Hz
USB-A port	Rear: 2x USB 3.2 Gen2 (10Gb/s, OCP = 900mA each), 1x USB 2.0 (480Mb/s OCP = 900mA each)
Serial port	1x RS-232
Service Interface	Mini USB port, UART-to-USB
Audio	High Definition Audio Codec with Line in / Line out at an internal Molex connector (PicoBlade)
fTPM / TPM	AMD® firmware Trusted Platform Module TPM 2.0 support (Infineon SLB 9670) (OEM only)
Status / control LEDs	Power and status LEDs
Hardware monitoring and management	Controllable FAN (PWM and Tacho); Temperature Sensor, Power Supply Voltage Monitoring, Watchdog
Power supply	Min. 10.8 V / Max.26.4 V (DC); fused to: 10 A; KL15 (ignition)
Operating temperature	0 °C to +60 °C ambient commercial temp. -40 °C to +85 °C ambient industrial temp. (V1404I); Depending on variant and cooling system, CPU throttling may occur at higher ambient temperatures
Storage temperature	-40°C to +85°C; non-condensing
Max. relative humidity	95% @ 40°C, non-condensing while stored 89% while working
Cooling	CPU Fan, 12V Auxiliary Fan, 12V Fanless cooling / passive cooling options available
Size approx.	186 x 119 mm
Weight approx.	195 g + options
OS support	V1000, R1000: Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Linux Ubuntu 22.04 LTS

Supported CPU types
Commercial operating temperature 0 °C to +60 °C
V1605B 4C 8T 2.0 GHz - 3.6 GHz 12 - 25 W
V1756B 4C 8T 3.25 GHz - 3.6 GHz 35 - 54* W
V1807B 4C 8T 3.35 GHz - 3.8 GHz 35 - 54* W
R1305G 2C 4T 1.5 GHz - 2.8 GHz 8 - 10 W
R1505G 2C 4T 2.4 GHz - 3.3 GHz 12 - 25 W
Industrial operating temperature -40 °C to +85 °C
V1404I 4C 8T 2.8 GHz - 3.6 GHz 12 - 25 W

*GS2 supports max. 45 W TDP

OCP = Overcurrent Protection

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LIFE SUPPORT APPLICATIONS

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