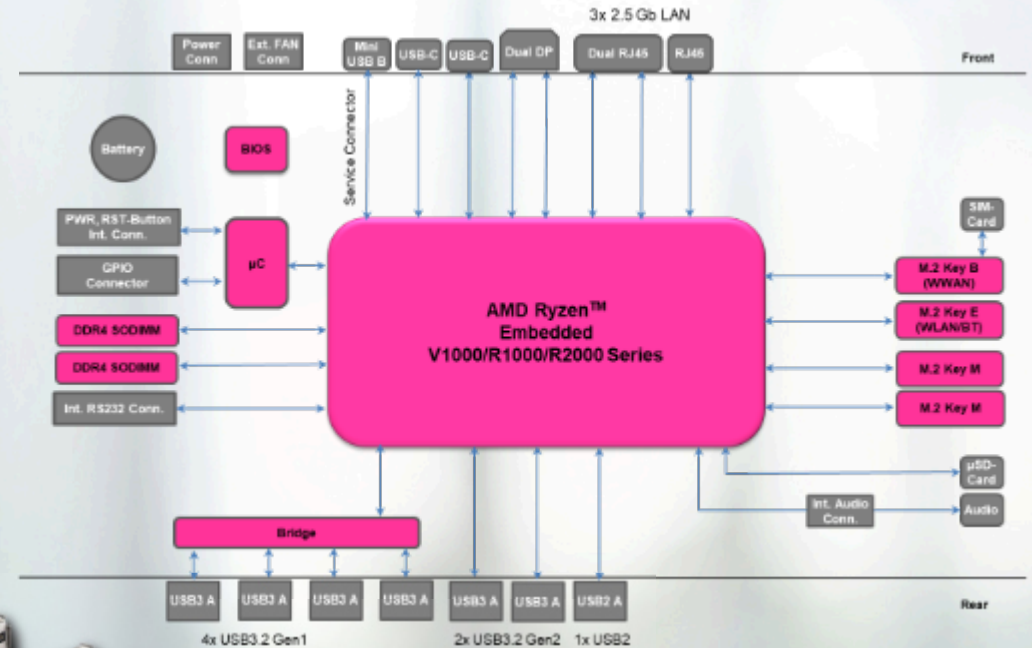


PROFIVE® GS2_T

APPLICATIONS

The **PROFIVE® GS2** single board computer finds its field of work in stationary and mobile devices:

- _ Rugged Industrial Systems
- _ Real-Time Sensor Processing
- _ Robotics
- _ Healthcare
- _ Factory Automation
- _ Data Acquisition and Measurement
- _ 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, R2000 Series max. 45 W supported 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 R2000: up to 2x 32GB 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)
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), 4x USB 3.2 Gen1 (5Gb/s, OCP = 900mA each), 1x USB 2.0 (480Mb/s OCP = 900mA each)
USB-C port	Front: up to 2x USB-C 3.2 Gen2, DP Alt Mode (10Gb/s, OCP = 3000mA each)
Serial port	1x RS-232
Audio	High Definition Audio Codec with MIC in / Headphone out at a 3,5 mm Audio Jack / 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	External Fan, 12V or 1x 4pin Molex connector 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 R2000: Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Microsoft® Windows® 11; 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
R2312 2C 4T 2.7 GHz - 3.5 GHz 12 - 25 W
R2314 4C 4T 2.1 GHz - 3.5 GHz 12 - 25 W
R2514 4C 8T 2.1 GHz - 3.7 GHz 12 - 35 W
R2544 4C 8T 3.25 GHz - 3.7 GHz 35 - 54* 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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