

ER-G800 (Advantix - powered by Fastwel) Embedded Computer for Edge Computing and Machine Vision Systems



Features

- CPU: Intel Core i7/i5/i3/Pentium/Celeron CPUs , 8/9 gen.;
- RAM: 4 – 64 GB, 2 x DDR4 SO-DIMM, 1x or 2x channel;
- Power supply: 9~36 V DC;
- Chipset: Intel C246;
- GPU: Intel UHD Graphics 610/630 or dedicated up to NVIDIA RTX 2080Ti / Titan V (250 W) (as an option);
- Operating temperature: -30°C to 60°C (w/o fans, w/ CPU up to 35W TDP, w/ ind. SSD, w/o GPU and expansion cards);
- Network: 2x GbE LAN ports, Intel® i210-T1 and Intel® I219LM;
- Weight: 12 kg;

Technical Specifications

Overview

ER-G800 (Advantix - powered by Fastwel) is a powerful embedded computer for edge computing and machine vision systems, which can be used in vehicles in order to ensure operation of machine vision systems. The device comes with fans or as a fanless version and can be equipped with up to 8 cores Intel® Coffee-Lake S/Refresh cores.

CPU

- Intel Core i7/i5/i3/Pentium/Celeron CPUs of the 8th and 9th generation;
- Intel Xeon E-2228GE, 8c/8T;
- Intel Core i7 9700E/8700/8700T, 8c/6c, 3.6/3.2/2.4 GHz and other processors;

RAM

- 4 – 64 GB, 2 x DDR4 SO-DIMM, 1x or 2x channel;

Chipset

- Intel C246;

Video subsystem

- Integrated, Intel UHD Graphics 610/630, and dedicated card up to NVIDIA RTX 2080Ti / Titan V (250W) (as an option);

Expansion slots

- 1 x mPCIe (PCIe 2.0 + USB 2.0), full-size;
- 1 x mPCIe (USB 2.0), full-size;
- 1 x Key-B 2242/3060 M.2 slot (USB 3.0) – fits for 4G (5G) modems;

Disk subsystem

- 3 x 2.5" SATA 3.0 SSD/HDD (height: 15mm) or 2 x 2.5" SATA 3.0 SSD / HDD+ 1 x u.2 NVMe SSD, 1 x CFast (access from outside);

Network

- 2x independent GbE LAN ports, Intel® i210-T1 and Intel® I219LM;

Ports

- Front panel:
 - 15 x LEDs (5 of them are programmable);
 - 1 x USB 3.1 (Gen2) + 1 x USB 2;
 - 1 x DB15 (4 x GPI + 4 x GPO + 1 x CAN 2.0V (isolated) + DR signal);
 - 2 x DB9 (RS232/RS422/RS485);
- Rear panel:
 - 4 x USB 3.1 (Gen2), 2 x GbE (RJ45), 4/8 GigE (PoE) (option);
 - 1 x VGA, 1 x HDMI;

- 2 x DB9 (RS232/RS422/RS485);

Watchdog timer

- Programmable watchdog, integrated acceleration sensor;

Power supply

- 9~36 V DC;

Cooling

- Passive cooling without GPU, optional fan unit;

Operating temperature range

- from -30°C to +60°C (without fans, with CPU up to 35W TDP, with industrial SSD, without GPU and expansion cards);

Dimensions

- Fanless version: 191.2 x 176 x 350 (W x D x H) (mm);
- Version with fans: 201.7 x 176 x 350 (W x D x H) (mm);

Weight

- 12 kg;



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Layout

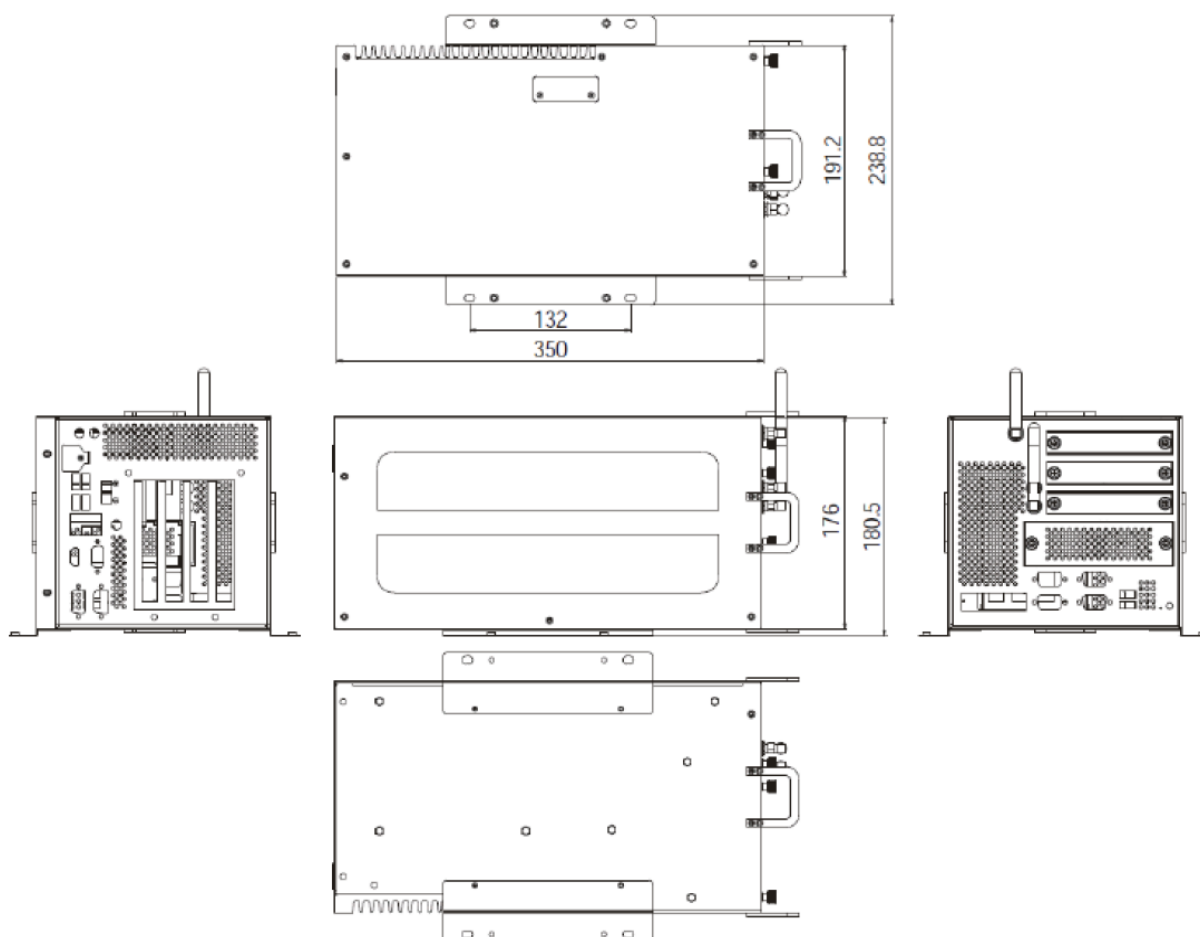
ER-G800 (Advantix - powered by Fastwel)



Front view



Rear view (GPU as an option)



ER-G800 (Advantix - powered by Fastwel) Embedded Computer for Edge Computing and Machine Vision Systems

Ordering information

ER-G800 (Advantix - powered by Fastwel) Configuration

ER-G800 \Options

Configurations

| | |
|-------------|---|
| ER-G800 | Embedded Computer / Core i7-8700T / 8GB SDRAM / 256GB SSD / set of fans / PSU 120 W |
| ER-G800-XXX | Custom configuration in accordance with the customer requirements. |

Delivery checklist

ER-G800 (Advantix - powered by Fastwel) delivery checklist contains:

1. ER-G800 (Advantix - powered by Fastwel) Embedded Computer
2. Packaging.

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Product specifications are subject to change without notice

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