



高性能实时目标机

Speedgoat 高性能目标机支持各种各样的 I/O 接口和工业协议，以 FPGA 代码模块或 I/O 模块的形式安装到实时目标机中。通过使用额外的扩展单元最多可以安装 50 个 I/O 模块。还支持定制的机柜系统。

高性能实时目标是专门为 Simulink Real-Time 设计的，通过与 MathWorks 的紧密合作，实现了无缝工作流程。

为复杂应用提供技术方案

高性能实时目标机持续增强对各种 CPU、FPGA 和 I/O 接口的支持，以适应日益严格的要求和复杂应用：

- Core：采用 Intel 液冷 CPU，实现高的实时性能
- PCIe+：这个高度可扩展的型号有 12 个 PCIe 插槽，是要求 MHz 闭环带宽和上百 I/O 接口的多 FPGA 解决方案的理想选择
- Core+：通过配备 Intel Xeon 20 核双处理器，实现并发执行

主要型号规格

| | ItemID 109100 | Core ItemID 109200 | PCIe+ ItemID 109400 | Core+ ItemID 109900 |
|---|--|---|---|--|
| CPU - Default | Intel Core i3 3.3 GHz 2 cores | Intel Core i3 3.7 GHz 2 cores | Intel Core i3 3.7 GHz 2 cores | 2 x Intel Xeon 3.1 GHz 20 cores |
| Real-Time Operating System | Simulink Real-Time™ | Simulink Real-Time™ | Simulink Real-Time™ | Simulink Real-Time™ |
| MATLAB release support | R2012b and newer | R2017a and newer | R2017a and newer | R2017a and newer |
| Memory - Default | 2048MB DDR3 RAM | 4096MB DDR4 RAM | 16GB DDR4 RAM | 16GB DDR4 RAM |
| Memory - Options | 4096MB (ItemID 109021) | 32 GB (ItemID 109221) 64 GB (ItemID 109222) | 32 GB (ItemID 109223) 64 GB (ItemID 109224) | 32 GB (ItemID 109223) 64 GB (ItemID 109224) |
| Video interfaces for target screen | 1 x DVI-D and 1 x VGA. Target scope resolution supported: 1280x1024 | 1 x HDMI, 1 x DVI-D, 1 x VGA. Target scope resolution supported: 1280x1024 | 2 x DVI-D. Target scope resolution supported: 1280x1024 | 1 x VGA. Alternative interfaces available as option. Target scope resolution supported: 1280x1024. |

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|---|--|---|--|--|
| USB for keyboard and UVC-compliant webcams | 4 x USB 3.0 and 1 x USB 2.0 at front 6 x USB 2.0 internal | 4 x USB 3.0 and 2x USB 2.0 at front 2 x USB 3.0 and 6 x USB 2.0 internal | 2 x USB 3.0 at front 2 x USB 3.0 and 2 x USB 2.0 internal | 2 x USB 3.0 and 2 x USB 2.0 at front 4 x USB 3.0 and 1 x USB 2.0 internal |
| Host-Target GbE link and XCP Slave | 1 (Intel 82579) | 1 (Intel I219) | 1 (Intel I210 on separate PCIe card) | 1 (Intel I210) |
| GbE port(s) for real-time UDP, EtherCAT Master, XCP Master, TCP/IP, and PTP 1588 | 1 (intel 82574) | 1 (Intel I210) Real-time UDP and EtherCAT Master only for R2017b+ | 2 (Intel I210, Intel I350) Real-time UDP and EtherCAT Master only for R2017b+ | 1 (Intel I210) |
| Serial Ports (only for speeds up to 115kb/s) | 1 x RS232/422/485 | 1 x RS232/422/485 | 1 x RS232/422/485 | 1 x RS232/422/485 |
| PS/2 port for keyboard | 1 x PS/2 at front | 1 x PS/2 at front | 1 x PS/2 at front | via USB only |
| Number of slots for I/O modules | 3 x PCI 4 x PCIe | 3 x PCI 4 x PCIe Gen 3 (2 x8, 2 x4) | 12 x PCIe Gen 3 (7 x16, 5 x4) | 4 x PCIe Gen 3 (3 x8, 1 x4) 1 x PCIe Gen 2 (1 x4) |