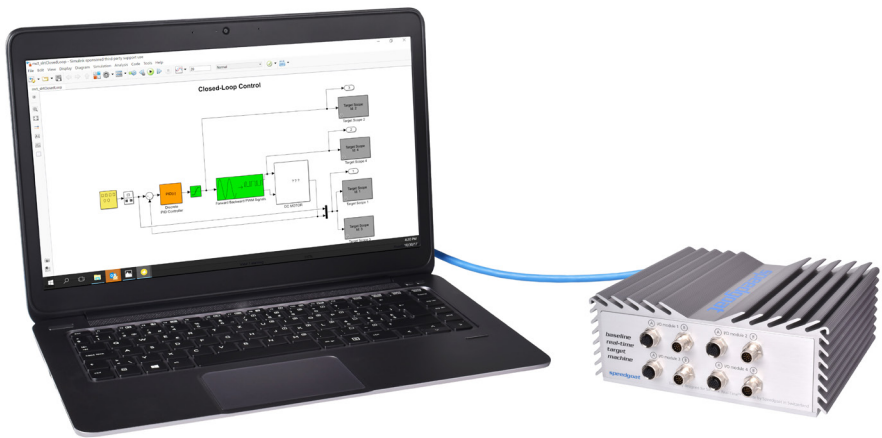


# *baseline real-time target machine*

## Quick Start Guide



Download the full documentation from our customer portal:  
[speedgoat.com/login](https://speedgoat.com/login)

Four simple steps for setting up your Baseline real-time target machine and connecting it to a development computer

Speedgoat Customer Portal - Log in at [speedgoat.com/login](https://speedgoat.com/login) to:

- Download software and documentation for your Speedgoat hardware
- Check the status of your warranty and service packages

# 1

## Install software on the development computer

1. Type `ver` at the MATLAB command prompt to verify that you have at least the following MathWorks products installed on your development computer:

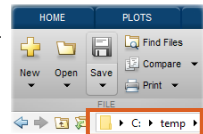
- MATLAB®
- Simulink®
- MATLAB Coder™
- Simulink Coder™
- Simulink Real-Time™

2. MEX and C compiler (required for code generation)

- Install a supported C-compiler for Simulink Real-Time. The required compiler version is dependent on your MATLAB release - see [www.mathworks.com/support/compilers](https://www.mathworks.com/support/compilers) for details.
- Run MATLAB as Administrator.
- Set the default compiler by typing `mex -setup` at the MATLAB command prompt.

3. Install the Speedgoat library for Simulink Real-Time

- Download the Speedgoat library from the Speedgoat Customer Portal and unzip.
- Within MATLAB navigate to the root folder of the downloaded library.
- Run `speedgoat_setup` at the MATLAB command prompt and follow the instructions.
- Once the installation process has finished, restart MATLAB.



4. Add MathWorks Updates

- MathWorks provides updates with improvements for specific MATLAB releases. Updates for your release will be available in the Speedgoat Customer Portal, under Downloads -> Support. It's important that they are all downloaded and installed.

Once the Speedgoat library has been installed, complete documentation is available from within MATLAB. Just type `speedgoat` at the MATLAB command prompt.

# 2

## Connect your target machine

Your target machine is ready to use out of the box:

- Connect the provided AC/DC power supply to the rear 'Power Input' connection.
- Connect the supplied Ethernet cable between the target machine 'Host Link' connection and the development computer.
- Connect a monitor (recommended but not required) using the 'DisplayPort' connection.
- The target machine will power on automatically. If needed, power can be controlled via the small power button on the front.



To establish communications between the development computer and target machine, Windows and MATLAB network settings must be configured. Your target machine comes preconfigured for the version of MATLAB you requested, and for a direct connection to the development computer. See the Software Configuration Guide at [speedgoat.com/help](http://speedgoat.com/help) for more information.

#### Preconfigured target machine

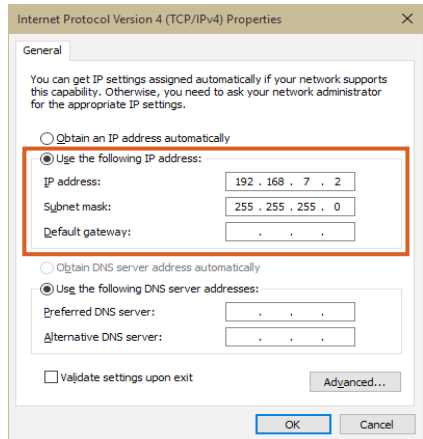
##### TCP/IP settings

Target IP address	192.168.7.1
Port	22222
Subnet mask	255.255.255.0
Gateway	255.255.255.255

## 3

### Configure Windows network settings

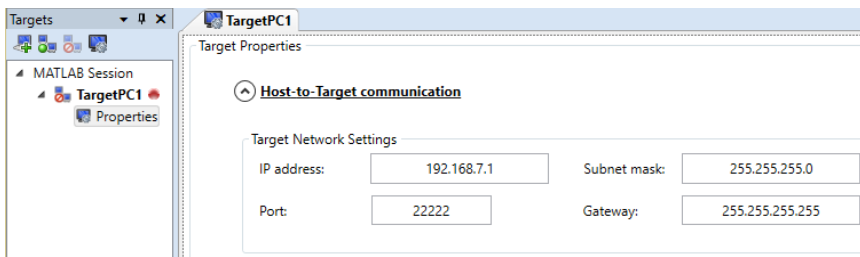
- In the Windows 'Network and Sharing Center' on the development computer, configure the 'Internet Protocol Version 4 Properties' for your Ethernet controller as follows:
  - IP address: 192.168.7.2
  - Subnet mask: 255.255.255.0



## 4

### Configure MATLAB network settings

- Open Simulink Real-Time Explorer by typing `slrtexplr` at the MATLAB command prompt on the development computer.
- In the Targets area select "Properties" for the default target, and open the "Host-to-Target communication" section. Configure as follows and save:



- Test host-target communication by typing `slrtpingtarget` at the MATLAB command prompt.
- You can now perform a system test using the Simulink test model available from the Customer Portal. More information about system testing and any required hardware connections is available in the test documentation shipped with your target machine.

## Resources

Online documentation: [speedgoat.com/help](https://speedgoat.com/help)  
Support email: [support@speedgoat.com](mailto:support@speedgoat.com)  
Sales email: [sales@speedgoat.com](mailto:sales@speedgoat.com)  
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