

# HM PrusaLink

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Prusa 3D Printer integration for HomeSeer 4

## Overview

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**HM PrusaLink** integrates Prusa 3D printers running **PrusaLink** into HomeSeer 4. The plugin creates HomeSeer devices for each printer with features covering print state, temperatures, progress, and job controls — so you can monitor and control your printers from HomeSeer events, dashboards, and scripts.

Up to **3 printers** can be configured simultaneously, each with independent settings.

## Requirements

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- HomeSeer 4
- A Prusa printer running PrusaLink with the web server enabled
- The PrusaLink API key (shown in the printer's web interface under Settings)
- Network connectivity between HomeSeer and the printer

## Compatible Printers

Any Prusa printer with PrusaLink built-in or installed:

Printer	PrusaLink
Prusa Core One	Built-in
Prusa MK4	Built-in
Prusa MK3.9	Built-in
Prusa MK3.5	Built-in
Prusa MINI / MINI+	Built-in
Prusa XL	Built-in
Prusa MK3S / MK3S+	Via Raspberry Pi (PrusaLink for RPi)

## Installation

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1. In the HomeSeer web interface, go to **Plug-ins → Manage**
2. Click **Additional Interfaces** to open the HomeSeer Plug-in Store
3. Search for **HM PrusaLink** and click **Download**
4. Enable the plug-in when prompted
5. Go to **Plug-ins → HM PrusaLink → Settings** to configure your printer(s)

## Configuration

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Navigate to **Plug-ins → HM PrusaLink → Settings**. There is one settings page per printer slot (Printer 1, Printer 2, Printer 3) plus a General page.

## Printer Settings

Setting	Description	Default
<b>Enable This Printer</b>	Turn this printer slot on or off. Disable to stop polling without removing devices.	Off
<b>Printer Name</b>	A friendly name used as the HomeSeer device name (e.g. "MK4 Workbench").	—
<b>Printer IP Address</b>	The IP address of the printer on your local network.	—
<b>Port</b>	The PrusaLink web server port. Typically 80 for built-in PrusaLink.	80
<b>API Key / Password</b>	The PrusaLink API key. Found in the printer's web interface under <b>Settings → Network → API Key</b> .	—
<b>Poll Interval</b>	How often (in seconds) the plugin fetches updated status from the printer.	10 seconds
<b>Floor (Location2)</b>	The HS4 Location2 value assigned to this printer's devices. Used for grouping in the HomeSeer device list.	3D Printers
<b>Remove All Devices &amp; Rescan</b>	Deletes all devices for this printer and recreates them. Use after a plugin update or if devices get into a bad state.	Off

## General Settings

Setting	Description
<b>Debug Mode</b>	Logs all API requests and responses to the HomeSeer log. Useful for troubleshooting. Generates verbose output — leave off for normal use.

**Tip:** After entering the IP, port, and API key, enable the printer slot. The plugin connects automatically and creates all devices. If you don't see devices, use **Remove All Devices & Rescan**.

## Devices & Features

The plugin creates one HomeSeer device per configured printer. Each device includes the following features:

Feature	Read/Write	Description
<b>State</b>	Read-only	Current printer state: <b>Idle</b> — printer is on but not printing. <b>Printing</b> — a print job is in progress. <b>Paused</b> — print job is paused. <b>Finished</b> — print completed successfully. <b>Stopped</b> — print was cancelled. <b>Error</b> — printer has an error condition. <b>Attention</b> — printer needs attention (filament runout, etc.). <b>Busy</b> — printer is busy (homing, loading filament, etc.). <b>Ready</b> — printer is ready to print.

<b>Nozzle Temp</b>	Read-only	Current hotend temperature in °C.
<b>Nozzle Target</b>	Read-only	Target hotend temperature in °C. 0 when not heating.
<b>Bed Temp</b>	Read-only	Current heated bed temperature in °C.
<b>Bed Target</b>	Read-only	Target bed temperature in °C. 0 when not heating.
<b>Progress</b>	Read-only	Print completion percentage (0-100%). Updates during active prints.
<b>Time Remaining</b>	Read-only	Estimated time remaining in the current print job, in minutes.
<b>Time Printing</b>	Read-only	Elapsed print time for the current job, in minutes.
<b>Job Control</b>	Read/Write	Control the active print job: <b>Pause</b> — pause the current print. <b>Resume</b> — resume a paused print. <b>Stop</b> — cancel the current print job.

**Note:** Job control commands (Pause, Resume, Stop) only take effect when a print job is active. Sending a command while the printer is idle has no effect.

## Event Examples

All printer features are standard HomeSeer devices and can be used in events and scripts:

Scenario	Trigger Condition	Action
Notify when print finishes	Printer State = Finished	Send push notification or text message
Alert on printer error	Printer State = Error or Attention	Send notification, turn on a warning light
Turn off lights when print starts	Printer State = Printing	Turn off workshop lights
Monitor print progress on dashboard	—	Add Progress feature to a HomeSeer dashboard tile
Pause print at scheduled time	Time = 11:00 PM	Set Job Control = Pause

## Troubleshooting

### Plugin won't connect

- Confirm the printer IP address and port are correct and reachable from the HomeSeer machine.
- Verify the API key in the printer's web interface under **Settings → Network → API Key**.
- Make sure PrusaLink is enabled on the printer (Settings → Network in the PrusaLink UI).
- Enable **Debug Mode** and check the HomeSeer log for connection error details.

### Devices not appearing

- Make sure **Enable This Printer** is turned on for the printer slot.

- Use **Remove All Devices & Rescan** in the printer settings page.

### **Features not updating**

- After a plugin update, existing devices may be missing new features. Use **Remove All Devices & Rescan** to recreate them with the latest feature set.