



User Manual

Version 1.0

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Chapter 1 Product Overview

1.1 About AiKMSpark

AiKMSpark is an on-premises AI knowledge management platform designed for use with the ASRock Industrial AI BOX-A395. It processes enterprise documents locally and transforms document content into structured knowledge that users can browse, manage, and query using natural language.

After documents are imported, AiKMSpark analyzes the content and organizes extracted information into a structured knowledge base. Users can review and modify knowledge entries, ask questions based on the stored knowledge, and trace generated answers to the corresponding source document and field. This allows the underlying information to be reviewed and verified directly within the knowledge management workflow.

AiKMSpark also supports knowledge synthesis and analysis across multiple documents, as well as report generation, with generated reports available for export in Word or PDF format. With AI processing performed locally on the AI BOX-A395, enterprise documents and knowledge can remain within the local environment during local operation.

1.2 Key Capabilities

Structured Knowledge Management

Browse and manage structured knowledge extracted from imported documents. AiKMSpark organizes extracted information, including fields, key points, entities and their relationships, into knowledge entries that users can review and modify.

Source-Referenced Question Answering

Ask questions about information stored in the knowledge base using natural language. Generated answers identify the corresponding source document and field, allowing users to trace and verify the underlying information.

Document Import and Knowledge Extraction

Import supported document formats, including PDF, Word, Excel, PowerPoint, and Plain text. AiKMSpark processes imported content and extracts structured information for use in the knowledge base. Scanned PDF documents can also be processed using OCR.

Cross-Document Knowledge Synthesis and Report Generation

Synthesize and analyze knowledge across multiple documents to identify relevant information and generate structured reports based on the available knowledge. Generated reports can be exported in Word or PDF format.

User and LAN Access Management

Create and manage user accounts and configure AiKMSpark to provide access to authorized users over the local network.

Chapter 2 System Requirements and Installation

2.1 Hardware and Software Requirements

AiKMSpark is designed to operate on the ASRock Industrial AI BOX-A395. The following hardware and operating system requirements apply to AiKMSpark.

Hardware Requirements

- ASRock Industrial AI BOX-A395

Operating System:

- Microsoft Windows 11
- Ubuntu: 24.04 LTS or 26.04 LTS

Storage Requirements:

- Approximately 30GB of available disk space

2.2 Prerequisite Setup

Before installing AiKMSpark, complete the required prerequisite setup for the applicable operating system.

2.2.1 Windows Prerequisites

The AMD Graphics Driver and AMD ROCm for gfx1151 must be installed before installing AiKMSpark on the AI BOX-A395.

Step 1 - Install the AMD Graphics Driver

1. Go to the AMD driver download page (<https://www.amd.com/en/support/download/drivers.html>)
2. Under **Search or Browse Drivers and Support by Product**, select the following options:

Field	Selection
Browse Products	Processors
Product Family	Ryzen PRO
Product Line	Ryzen AI Max PRO 300 Series
Product Model	AMD Ryzen™ AI MAX+ PRO 395

[Windows & Linux Drivers](#)
[Search or Browse Products](#)
[More Resources](#)

Search or Browse Drivers and Support by Product

Browse Products

Processors

Product Family

Ryzen PRO

Product Line

Ryzen AI Max PRO 300 Series

Product Model

AMD Ryzen™ AI Max+ PRO 395

- Click **Submit** to open the driver download page.
- Expand Windows 11 – 64-Bit Edition.
- Locate AMD Software: Adrenalin Edition 26.8.1 (WHQL Recommended), click **Download**, and follow the installer, restart when prompted.

[Drivers](#)
[Specifications](#)
[Contact](#)

Drivers and Software

AMD software and drivers are designed to work best for up-to-date operating systems. Please be sure to update your operating system before installing drivers.

Windows 11 - 64-Bit Edition

Driver

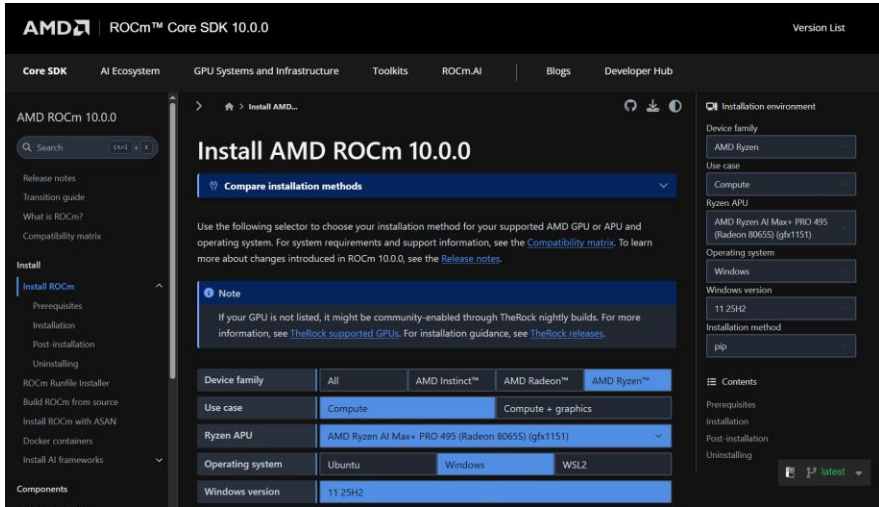
Auto-Detect and Install Revision Number	File Size	Release Date	Download*
	46 MB	2026-08-20	Download
Driver Details			
AMD Software: Adrenalin Edition Revision Number Adrenalin 26.8.1 (WHQL Recommended)	File Size 849 MB	Release Date 2026-08-20	Download
Driver Details			
AMD Software: Adrenalin Edition Revision Number Adrenalin 26.9.1 (WHQL Optional)	File Size 887 MB	Release Date 2026-09-03	Download
Driver Details			

Step 2 – Install AMD ROCm

- Go to AMD ROCm installation page.
(<https://rocm.docs.amd.com/en/latest/install/rocm.html>)

- Use the selector on the page and select the following options:

Field	Selection
Device family	AMD Ryzen
Ryzen APU	AMD Ryzen AI Max+ PRO 395 (Radeon 8060S) (GFX1151)
Operating system	Windows



- Follow the installation instructions displayed for the selected hardware, including the prerequisites section.

****Important:** Select the specified Ryzen APU when installing AMD ROCm. ROCm packages are architecture-specific, and a package for another model will not run on the Radeon 8060S.

2.2.2 Linux (Ubuntu) Prerequisites

Before installing AiKMSpark on Ubuntu, install AMD ROCm for gfx1151 on the AI BOX-A395. A separate AMD graphics driver installation is not required. Ubuntu uses the amdgpu kernel driver included with the operating system.

****Important:** Do not install the AMD GPU DKMS driver package.

Install AMD ROCm

- Go to the AMD ROCm installation page.
(<https://rocm.docs.amd.com/en/latest/install/rocm.html>)
- Use the selector on the page and select the following options:

Field	Selection
-------	-----------

Device Family	AMD Ryzen
Ryzen APU	AMD Ryzen AI MAX+ PRO 395 (Radeon 8060S) (gfx1151)
Operating system	Ubuntu
Ubuntu version	24.04.4 or 26.04
Installation method	apt



- Follow the installation instructions displayed for the selected hardware, including the prerequisites section.

Note: For Ubuntu 24.04, the prerequisites include installation of the OEM 6.14 kernel, which is required for Ryzen APU support.

****Important:** Select the specified Ryzen APU when installing AMD ROCm. ROCm packages are architecture-specific, and a package for another model will not run on the Radeon 8060S.

- Restart the system after completing the installation.
- Open a terminal and run the following command: `< rocminfo | grep gfx >`
- Verify that the output includes: `gfx1151`

2.3 AiKMSpark Installation

AiKMSpark installation packages for Windows and Ubuntu are available from the AiKMSpark product page (<https://www.asrockind.com/AiKMSpark>). Select the Windows or Ubuntu icon according to the operating system installed on the AI BOX-A395 to download the applicable installation package.

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AiKMSpark Software & Services

AI BOX-A395 + AiKMSpark
The Complete On-Premises Enterprise AI Solution

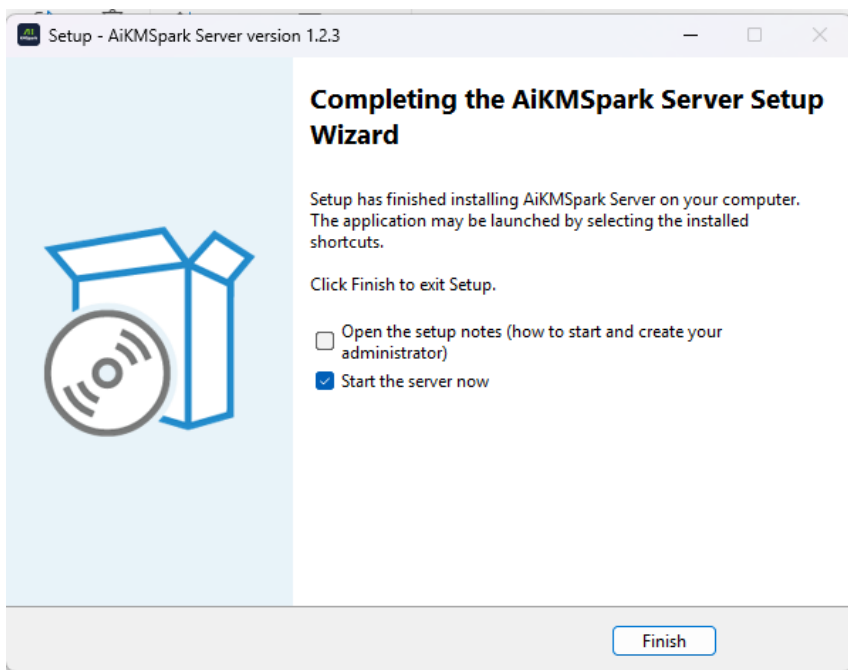
- Comprehensive document import - PDF, Word, PowerPoint, Excel, TXT and Markdown files are supported, with OCR for scanned pages, bulk folder import and automatic duplicate detection.
- Automated knowledge construction - AiKMSpark reads each document and extracts summaries, attributes, entities and relationships, requiring no predefined taxonomy.
- Click the icon below to download.
- Reviewable and editable knowledge base - Entries can be reviewed, corrected, and merged where a single subject spans multiple records.
- Traceable answers and reports - Multi-turn conversational Q&A returns cited sources, showing which knowledge entry and field matched each question, and findings can be compiled into reports.
- On-premises deployment - The system runs on one machine and is accessed through a browser; models operate offline, with cloud API connectivity optional.

Click the icon below to download-----

Compare Inquiry Get a Quote

2.3.1 Windows Installation

1. Download the AiKMSpark Windows installation package from the AiKMSpark product page.
2. Run `AiKMSpark_Server_Setup_<version>.exe`.
3. Select the installation language, and follow the on-screen instructions to complete the installation.
4. When the installation is complete, click **Finish**. To start AiKMSpark immediately, keep **Start the server now** selected.



Note: If Windows displays a protection warning when running the AiKMSpark installer, select **More info**, then select **Run anyway**. The installer is signed.

2.3.2 Ubuntu Installation

1. Download the AiKMSpark Ubuntu installation package from the AiKMSpark product page.
2. Extract the downloaded installation package.
3. Press **Ctrl + Alt + T** to open a terminal.
4. Navigate to the extracted installation directory using the `cd` command.
5. Run the following command:
`sudo apt install ./aikmspark_<version>_amd64.deb`

```
asri@asri-To-Be-Filled-By-O-E-M: ~/Downloads/AiKMSpark_Server_linux_1.2.3_rel...
asri@asri-To-Be-Filled-By-O-E-M:~$ cd /home/asri/Downloads/AiKMSpark_Server_linux_1.2
.3_release
asri@asri-To-Be-Filled-By-O-E-M:~/Downloads/AiKMSpark_Server_linux_1.2.3_release$
```

6. Enter the administrator password when prompted.
7. Wait for the installation to complete.

After installation, AiKMSpark Server starts automatically. The terminal displays the server address when the installation is complete.

```
asri@asri-To-Be-Filled-By-O-E-M: ~
asri@asri-To-Be-Filled-By-O-E-M:~/Downloads/AiK... x asri@asri-To-Be-Filled-By-O-E-M: ~
Use 'sudo apt autoremove' to remove it.
The following packages will be REMOVED:
  aikmspark*
0 upgraded, 0 newly installed, 1 to remove and 65 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
(Reading database ... 237999 files and directories currently installed.)
Removing aikmspark (1.2.3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for desktop-file-utils (0.27-2build1) ...
(Reading database ... 237374 files and directories currently installed.)
Purging configuration files for aikmspark (1.2.3) ...
info: Removing crontab ...
info: Removing user 'aikmspark' ...
The aikmspark package has been removed. Your knowledge base, models and
settings under /opt/aikmspark are untouched. Remove them yourself with
  sudo rm -rf /opt/aikmspark
once you are sure you no longer need them.
dpkg: warning: while removing aikmspark, directory '/opt/aikmspark' not empty so not
removed
Removing user asri from group aikmspark
asri@asri-To-Be-Filled-By-O-E-M:~$
```

2.4 AiKMSpark Directory Structure

AiKMSpark stores application data, system settings, language models, and log files in separate directories.

Windows

Default installation directory:

`C:\AiKMSpark`

Directory	Description
workspaces\	Stores knowledge base and report data.
Config\	Stores account and configuration data.
Model\	Stores language models.
logs\	Stores log files.

Ubuntu

Default program directory:

`/opt/aikmspark`

Default documentation directory:

`/usr/share/doc/aikmspark`

2.5 Upgrading AiKMSpark

AiKMSpark can be upgraded to a newer version while retaining the existing knowledge base, user accounts, and language models.

Windows

1. Uninstall the currently installed version of AiKMSpark through Windows installed apps.
2. Run the installer for a new version of AiKMSpark.
3. Follow the on-screen instructions to complete the installation.

Ubuntu

Install the new AiKMSpark package using the following command:

`sudo apt install ./aikmspark_<version>.deb`

The existing knowledge base, user accounts, and language models are retained during the upgrade process.

Chapter 3 Getting Started

3.1 Launching AiKMSpark

After installation, an AiKMSpark shortcut is available on the desktop. Use the shortcut to start the AiKMSpark application service and open the user interface in a web browser.

1. Double-click the AiKMSpark shortcut on the desktop.
2. Wait for the AiKMSpark service to start.
3. The AiKMSpark user interface opens automatically in the default web browser.

3.2 Initial Administrator Account

When AiKMSpark is launched for the first time, an administrator account must be created before accessing the system. AiKMSpark does not provide a factory-default administrator account.

1. Enter the administrator **username**.
2. Enter a **password** containing at least six characters.
3. Enter the **password** again to confirm it.
4. Select **Show** to verify the entered password, if required.
5. Complete the account creation process.

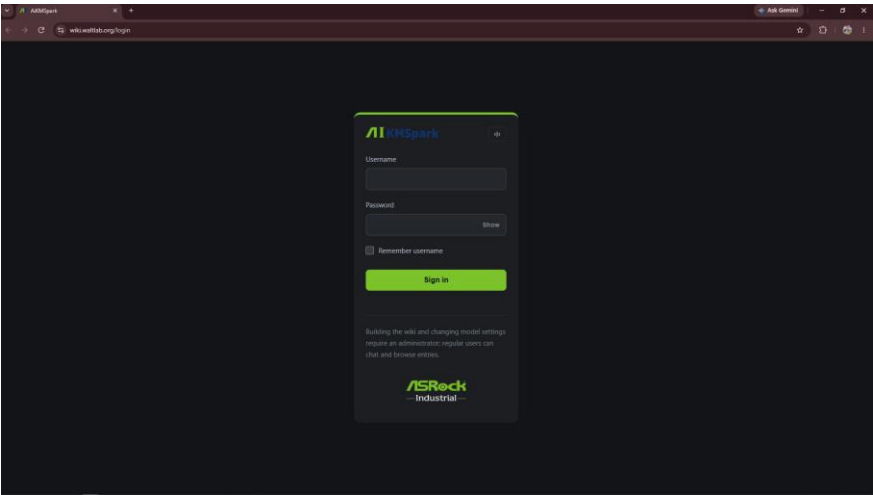
****Important:** A forgotten administrator password cannot be recovered through AiKMSpark.

3.3 Signing in

After the initial administrator account has been created, the AiKMSpark sign-in page is displayed. For subsequent access, sign in using an existing AiKMSpark account.

1. Enter the **Username**.
2. Enter the **Password**.
3. Select **Remember username**, if required, to automatically fill in the username the next time the sign-in page is opened
4. Complete the sign-in process.

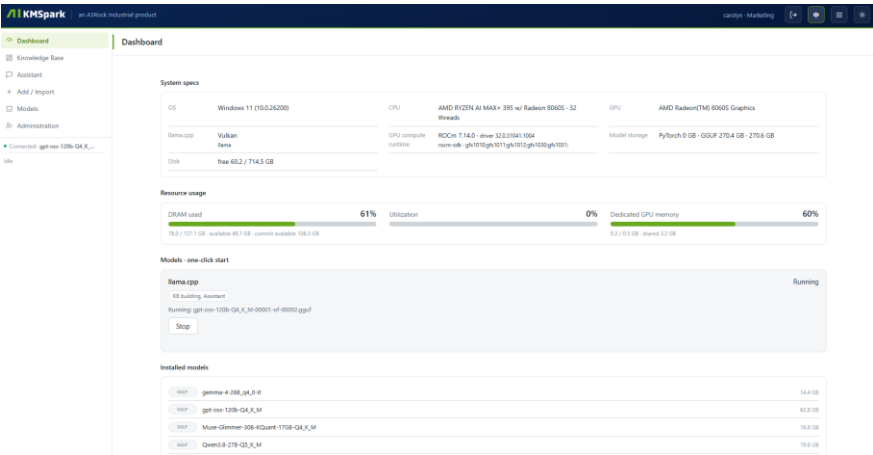
Note: The **Remember username** option stores the username only. The password is not stored.



Changing the Interface Language

Select the EN / 中 language toggle in the upper-right corner of the interface to switch the display language. The interface language can be changed before or after signing in.

3.4 User Interface Overview



After signing in, the AiKMSpark main interface provides access to system information, knowledge base functions, AI-assisted interactions, model settings, and administrative functions through the navigation panel.

Interface Element	Description
Dashboard	Displays system specifications, model status, and installed models.
Knowledge Base	Displays processed entries, entities, and concepts. Users can search and browse knowledge base content using card or tree views.
Assistant	Provides a chat interface for asking questions based on the knowledge base or interacting with the assistant.
Add / Import	Imports supported documents or folders into AiKMSpark and provides knowledge base maintenance functions.
Models	Provides access to available model backends and models used for knowledge base building and assistant functions.
Administration	Provides administrative functions for accounts and access, tools, and integrations, and data and output settings.

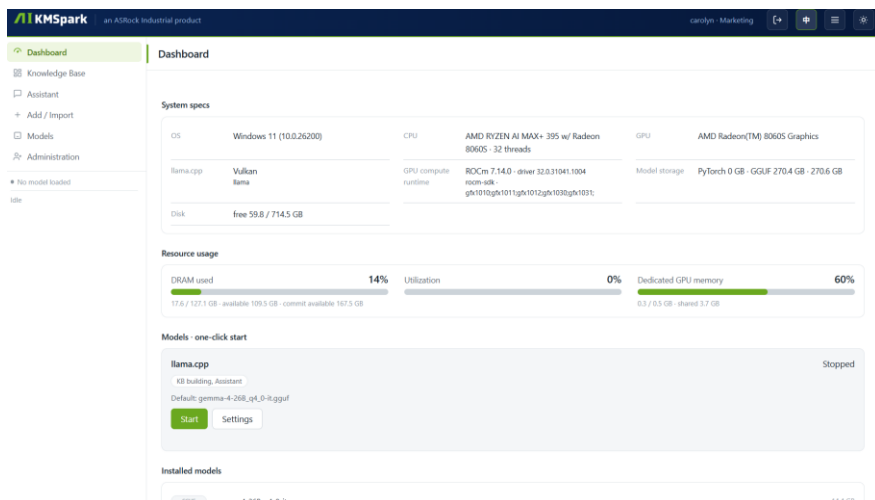
Chapter 4 Using AiKMSpark

4.1 Dashboard

The **Dashboard** provides an overview of the AiKMSpark operating environment, system resource usage, and model status.

The Dashboard includes the following sections:

Section	Description
System specs	Display system hardware, runtime, storage, and operating system information.
Resource usage	Displays current system memory and GPU resource usage.
GPU compute runtime	Displays the installed GPU driver and ROCm version information for verifying the GPU compute environment.
Models one-click start	Displays the model backend and its current operating status, with controls for starting, stopping, and configuring the backend.
Installed models	Displays the models currently installed on the system.



4.2 Knowledge Base

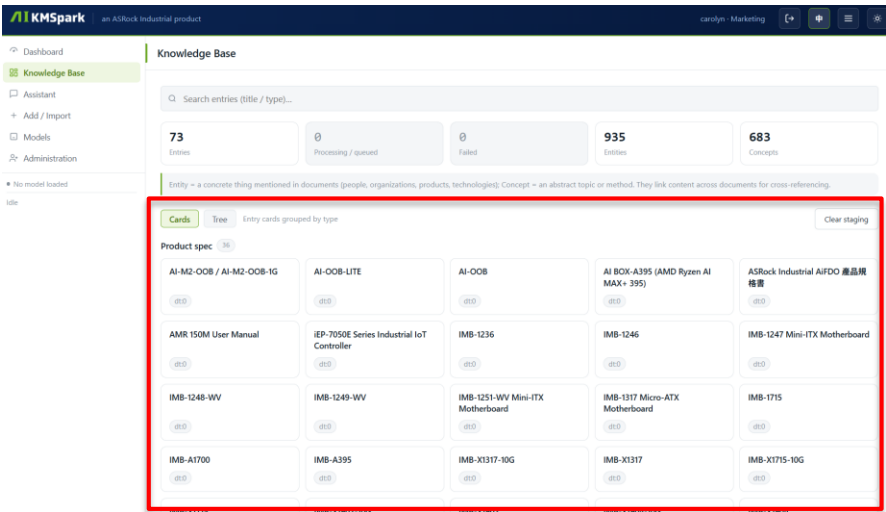
The knowledge Base provides access to information extracted and organized from imported documents. It allows users to search and browse entries and explore related entities and concepts across the knowledge base.

The page displays the total number of **Entries**, **Processing / queued** items, **Failed** items, **Entities**, and **Concepts**.

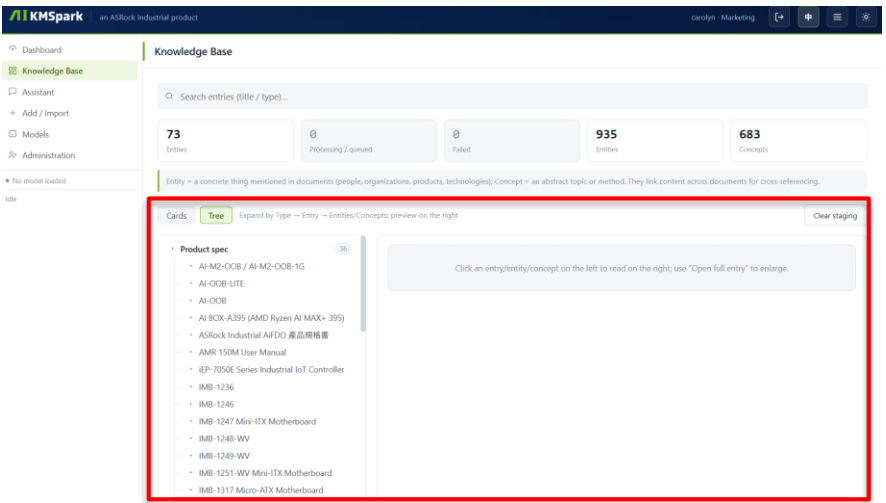
Searching the Knowledge Base

Use the search field at the top of the page to search entries by title or type.

Browsing the Knowledge Base



Knowledge base content can be displayed using **Cards** or **Tree** view.



Viewing and Editing Knowledge Details

Users can open a knowledge entry to review its extracted information and modify the knowledge details as needed.

To view and edit a knowledge entry:

1. Go to **Knowledge Base**.
2. Select the required knowledge entry.

The screenshot shows the AiKMSpark Knowledge Base interface. On the left, a sidebar lists navigation options: Dashboard, Knowledge Base (selected), Assistant, Add / Import, Models, and Administration. Below this, a list of product specifications is shown, including AI-MQ-00B / AI-MQ-00B-1G, AI-00B-LITE, AI-00B, ASRock Industrial AI700 產品規格書, AMR 130M User Manual, Ai Max 300 BOX Series, and others. The main area displays the details for the 'AI Max 300 BOX Series'. It includes a 'Product spec' section with a description: 'The AI Max 300 BOX Series is a portable, rugged BOX PC designed as the next generation of Copilot+ PC Workstations. It features the AMD Ryzen AI MAX+ 395 processor with 16 cores and 32 threads, delivering up to 126 TOPS of AI performance. The system supports up to 128GB of LPDDR5x-8000 memory with 96GB unified GPU memory. It is optimized for edge AI processing, engineering, 3D design, and content creation, offering dual-OS support for Windows 11 and Linux. The unit includes a rugged portable handle, a whisper-quiet 6-heat pipe cooling system operating at 32.5dB, and redundant BIOS design for 24/7 uptime.' Below the description is a 'Key fields' table.

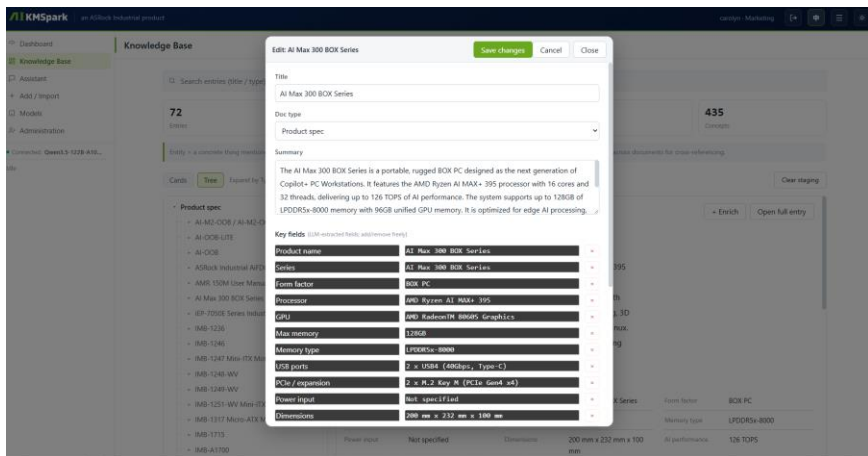
Product name	Ai Max 300 BOX Series	Series	Ai Max 300 BOX Series	Form factor	BOX PC
Processor	AMD Ryzen AI MAX+ 395	Max memory	128GB	Memory type	LPDDR5x-8000
Power input	Not specified	Dimensions	200 mm x 232 mm x 100 mm	AI performance	126 TOPS

3. Click **Open full entry** to view the complete knowledge detail.

The screenshot shows the AiKMSpark Knowledge Base interface with a modal window open for the 'AI Max 300 BOX Series'. The modal window has a title bar with 'Original file', 'Enrich', 'Edit', 'Re-analyse', and 'Delete' buttons. It contains the same 'Product spec' description as the previous screenshot. Below the description is a 'Key fields' table.

Product name	Ai Max 300 BOX Series	Series	Ai Max 300 BOX Series
Form factor	BOX PC	Processor	AMD Ryzen AI MAX+ 395
Max memory	128GB	Memory type	LPDDR5x-8000
Power input	Not specified	Dimensions	200 mm x 232 mm x 100 mm
AI performance	126 TOPS	OS support	Windows 11, Linux
LAN ports	2	Port	No
5G	No	Wi-Fi	Yes
TPM	Yes		
GPU	AMD Radeon™ 8800S Graphics		
Power input	Not specified	Dimensions	200 mm x 232 mm x 100 mm

4. Review the extracted information and key fields.
5. Click **Edit** to modify the knowledge entry.



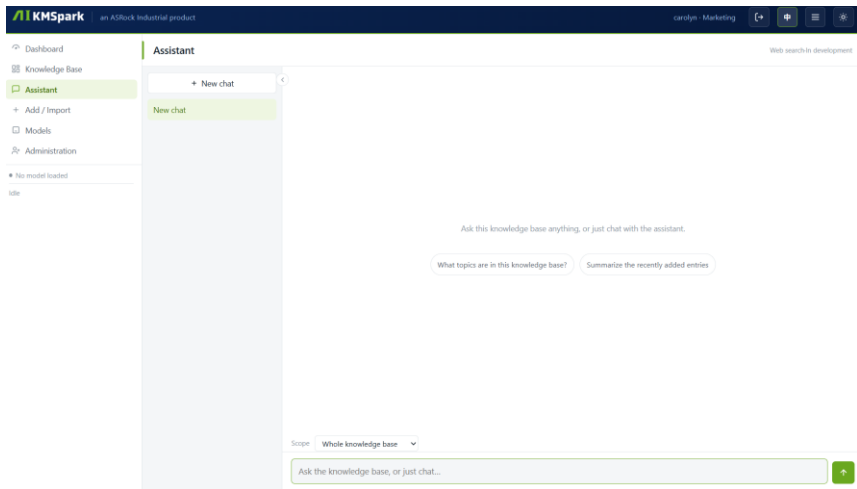
6. Modify the applicable information, including **Summary**, **Key fields**, **Key entities**, or **Related concepts**.
7. Click **Save changes** to apply the changes.

4.3 Assistant

The **Assistant** provides a conversational interface for asking questions based on the knowledge base or interacting with the AI model.

Starting a New Chat

1. Select Assistant from the navigation panel.
2. Click + **New chat**.
3. Enter a question or prompt in the message field.
4. Click the **Send** button to submit the message.



4.4 Add / Import

The Add / Import page is used to import documents into the knowledge base and perform knowledge base maintenance operations.

AiKMSpark supports **PDF**, **Word**, **PPT**, **Excel**, and **TXT** files.

Importing Files

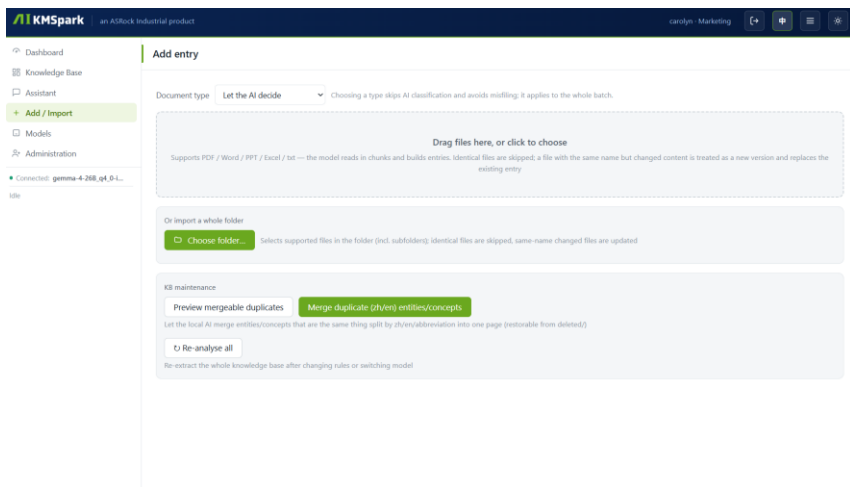
1. Select **Add / Import** from the navigation panel.
2. Select a **Document type**, or select **Let the AI decide** to allow AiKMSpark to classify the imported files automatically.

Available document type options include:

- Product spec
- Financial report
- Regulation
- Investment research note

• Other

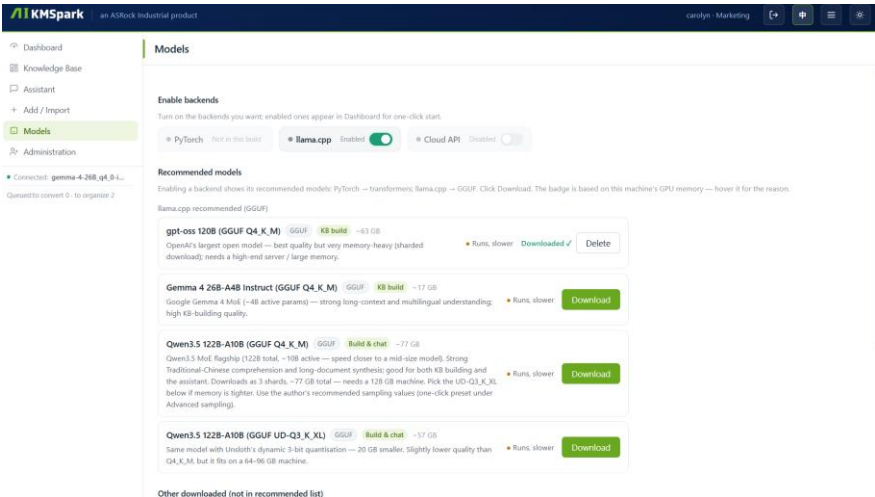
3. Drag files into the upload area, or click the upload area to select files.
4. AiKMSpark reads the imported files in chunks and builds the corresponding entries.



Note: For the initial import, it is recommended to start with approximately 200 - 300 of the most important or frequently used documents. Additional documents can then be added and queued for background processing.

4.5 Models

The **Models** page is used to manage the model backends and language models available to AiKMSpark.



Enable the required model backend, and download the models required for knowledge base building or Assistant functions. Downloaded models can also be removed when they are no longer required.

Model Settings

AiKMSpark provides configuration settings for the llama.cpp backend. These settings can be used to configure model response behavior and generation parameters.

To configure the llama.cpp backend:

1. Go to **Dashboard**.
2. Locate the model backend and click **Settings**.
3. Adjust the model settings if needed.

Setting	Description
Temperature	Control the answer style. Lower values provide more precise and consistent responses, while higher values provide more creative responses. For information lookup, the interface recommends a value between 0.2 and 0.4.
Max reply length	Sets the maximum reply length. The default value shown is 4096.

Thinking mode	Select On to reason first for more complex questions. This may take longer but can provide more accurate answers. Select Off for faster, direct responses.
Advanced sampling	Provides additional model sampling parameters, including top_p , top_k , and min_p . Adjust these settings only when required.

4. Click **Save Settings** to apply the changes.
5. After saving, start the model from the **Dashboard**.

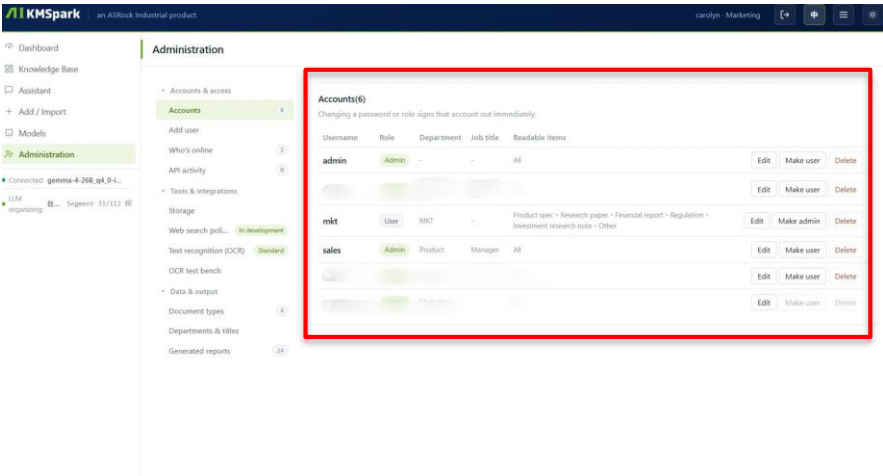
Note: Model files copied manually to `/opt/aikmspark/Model/gguf` must be selected and started through **Model Settings** in the AiKMSpark web interface. Do not start `llama-server` manually from a terminal, because AiKMSpark will not be able to identify the loaded model in the answer log.

4.6 Administration

The **Administration** page provides functions for managing user accounts and access, system tools and integrations, and data & output settings.

Administrative functions are organized into the following groups:

Group	Functions
Accounts & access	Accounts, Add user, who's online, API activity
Tools & integrations	Storage, Web search policy, Text recognition (OCR), OCR test bench
Data & output	Document types, Departments & titles, Generated reports



User Accounts and Roles

AiKMSpark provides two user roles: **Admin** and **User**. Administrators can manage user accounts and assign access permissions through the **Accounts & access** section.

User Roles and Permissions

AiKMSpark provides two user roles: **Admin** and **User**. The functions available in AiKMSpark depend on the role assigned to the account.

Function	Admin	User
View Dashboard	✓	✓
Browse Knowledge Base	✓	✓
Use Assistant	✓	✓
Add / Import documents	✓	-

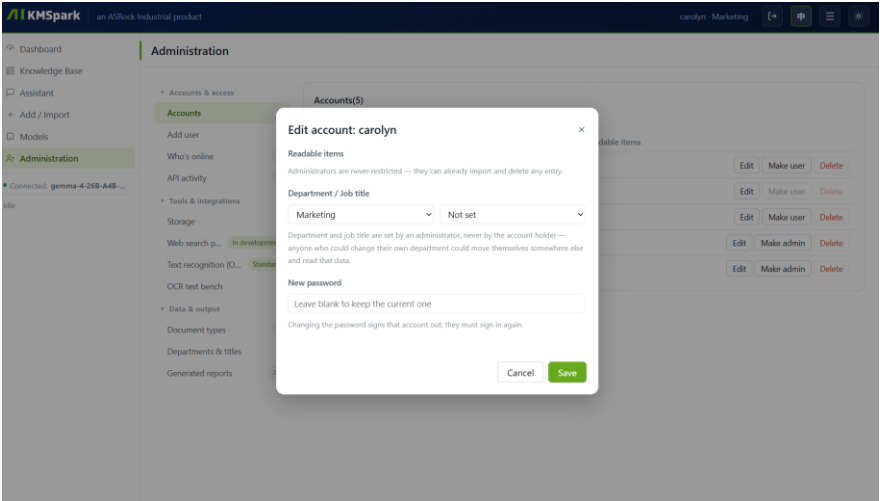
Manage Models	✓	-
Access Administration	✓	-

Note: The knowledge base content available to a User account depends on the readable items assigned to that account.

Configuring User Access Permissions

Administrators can control the document types that are available to individual user accounts through the **Readable items** setting.

1. Go to **Administration > Accounts & access > Accounts**.
2. Locate the user account and click **Edit**.
3. Under **Readable items**, select the document types that the user is allowed to access.
4. Click **Save**.



Managing Document Types

Administrators can manage the document types used to classify imported documents from **Administration > Data & output > Document types**. Built-in document types can be edited or turned off, and additional document types can be created as required.

The screenshot shows the AiKMSpark Administration interface. The left sidebar contains navigation links: Dashboard, Knowledge Base, Assistant, Add / Import, Models, Administration (highlighted), and Connected: gemma-4-20B-A4B... The main content area is titled 'Administration' and shows a list of document types under the 'Data & output' section. The 'Document types' section is expanded, showing a list of document types with their respective counts and aliases. The 'Add a type' section is also visible, showing a list of templates to choose from.

Document types

Imported documents are auto-classified into these types, and each type's extracted fields and sections are set here. The five built-in types can be edited or turned off too — keep the ones you want.

Document Type	Count	Aliases	Actions
Product spec	36	dt:0 - 6 aliases	Edit, Turn off
Research paper	8	dt:1 - 6 aliases	Edit, Turn off
Project plan	2	dt:2 - 9 aliases	Edit, Turn off
Financial report	2	dt:3 - 17 aliases	Edit, Turn off
Regulation	3	dt:4 - 8 aliases	Edit, Turn off
Asrock industrial	14	dt:14 - 2 aliases	Edit, Turn off, Delete

Add a type

A name is enough to start. The more accurate the keywords, the better the auto-classification; the rest of the extraction settings (fields, sections, guidance) can be filled in afterwards via Edit.

Start from a template

Template	Fields	Sections
Customer contract	10 fields	6 sections
Meeting minutes	10 fields	3 sections
Operating procedure	7 fields	3 sections
Quality incident report	11 fields	3 sections
Training material	8 fields	3 sections
Investment research	-	-

Creating a Document Type

1. Go to **Administration > Data & output > Document types**.
2. Under **Add a type**, select the required template.
3. When the confirmation message appears, click **OK**.
4. A new document type based on the selected template is added to the document type list.
5. Click **Edit** to modify the document type settings as required.

Creating a Document Type Manually

1. Under **Add a type**, enter the document type **Name**.
2. Click **Add**.
3. The new document type is added to the **Document types** list.
4. Click **Edit** to configure additional document type settings as required.

Editing a Document Type

1. Locate the document type to modify in the **Document types** list.
2. Click **Edit**.
3. Modify the applicable settings as needed.
4. Click **Save** to apply the changes.