**昇腾开发者文档链接汇总**

昇腾社区官网：

<https://www.hiascend.com/>

昇腾文档-昇腾社区：

<https://www.hiascend.com/document?tag=community-developer>

昇腾计算：

<https://support.huawei.com/enterprise/zh/category/ascend-computing-pid-1557196528909?submodel=doc>

昇腾论坛：

<https://bbs.huaweicloud.com/forum/forum-726-1.html>

AI开发平台ModelArts文档：

<https://docs.gaoxinai.com/zh-cn/usermanual/modelarts/modelarts_01_0001_0.html>

通过VSCode远程链接ModelArts开发环境

<https://bbs.huaweicloud.com/blogs/280541>

资源下载-昇腾社区：

<https://www.hiascend.com/developer/download>

异构计算架构CANN 6.0.RC1用户手册：

<https://www.hiascend.com/document/detail/zh/canncommercial/60RC1/overview/index.html>

环境部署

[昇腾软件快速部署指南](https://www.hiascend.com/document/detail/zh/quick-installation/22.0.RC2/quickinstg/300T_9000/300T_9000_00001.html)

驱动和固件安装指南：[准备硬件环境](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/softwareinstall/instg/atlasdeploy_03_0014.html)

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| 驱动和固件（社区版）下载地址 | <https://www.hiascend.com/hardware/firmware-drivers?tag=community> |
| Atlas 200 AI加速模块 | [https://support.huawei.com/enterprise/zh/doc/EDOC1100206812](https://support.huawei.com/enterprise/zh/doc/EDOC1100206812/b1977c97) |
| Atlas 300T 训练卡（型号 9000） | [https://support.huawei.com/enterprise/zh/doc/EDOC1100207447](https://support.huawei.com/enterprise/zh/doc/EDOC1100207447/b1977c97) （1.0.11至1.0.15）  [https://support.huawei.com/enterprise/zh/doc/EDOC1100162133](https://support.huawei.com/enterprise/zh/doc/EDOC1100162133/8a04d14c) （1.0.7至1.0.10） |
| Atlas 300I 推理卡（型号 3000） | [https://support.huawei.com/enterprise/zh/doc/EDOC1100115618](https://support.huawei.com/enterprise/zh/doc/EDOC1100115618/2d56b254) |
| Atlas 300I 推理卡（型号 3010） | [https://support.huawei.com/enterprise/zh/doc/EDOC1100079287](https://support.huawei.com/enterprise/zh/doc/EDOC1100079287/5e49deef) |
| Atlas 300I Pro 推理卡 | [https://support.huawei.com/enterprise/zh/doc/EDOC1100221702](https://support.huawei.com/enterprise/zh/doc/EDOC1100221702/b1977c97) |
| Atlas 300I Duo 推理卡 | [https://support.huawei.com/enterprise/zh/doc/EDOC1100245756](https://support.huawei.com/enterprise/zh/doc/EDOC1100245756/b1977c97) |
| Atlas 300V Pro 视频解析卡 | [https://support.huawei.com/enterprise/zh/doc/EDOC1100221699](https://support.huawei.com/enterprise/zh/doc/EDOC1100221699/b1977c97) |
| Atlas 800 训练服务器（型号 9000） | [https://support.huawei.com/enterprise/zh/doc/EDOC1100206808](https://support.huawei.com/enterprise/zh/doc/EDOC1100206808/b1977c97) |
| Atlas 800 训练服务器（型号 9010） | [https://support.huawei.com/enterprise/zh/doc/EDOC1100207448](https://support.huawei.com/enterprise/zh/doc/EDOC1100207448/b1977c97) |

兼容性查询助手：<https://www.hiascend.com/hardware/compatibility>

CANN社区版软件包下载地址：<https://www.hiascend.com/software/cann/community>

安装[开发环境](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/51RC1alpha005/softwareinstall/instg/atlasdeploy_03_0030.html)和[运行环境](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/51RC1alpha005/softwareinstall/instg/atlasdeploy_03_0041.html)：[CANN软件安装 (命令行)](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/51RC1alpha005/softwareinstall/instg/atlasdeploy_03_0002.html)

昇腾镜像仓库：<https://ascendhub.huawei.com/#/index>

模型开发

昇腾开发者在线课程：<https://www.hiascend.com/edu/courses>

深度学习模型库ModelZoo：<https://www.hiascend.com/software/modelzoo>

第三方框架适配：<https://www.hiascend.com/zh/software/ai-frameworks>

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| 在昇腾设备上使用TensorFlow进行模型训练（使用TensorFlow AI框架） | [模型开发向导](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/moddevg/tfmigr1/atlasmprtg_13_9002.html)  [TensorFlow1.15手工迁移和训练](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/moddevg/tfmigr1/atlasmprtg_13_0009.html)  [TensorFlow1.15自动迁移和训练](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/moddevg/tfmigr1/atlasmprtgtool_13_0001.html) |
| TensorFlow在线推理 | [TensorFlow1.15在线推理](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/moddevg/onlineinfer1/atlasoiug_26_0000.html)  [TensorFlow2.6在线推理](https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/moddevg/onlineinfer2/atlasoiug_26_0000.html) |
| 在昇腾设备上使用PyTorch进行模型训练（使用PyTorch AI框架） | [PyTorch用户手册](https://gitee.com/ascend/pytorch/tree/v1.8.1-3.0.rc2/docs/zh)  [PyTorch网络模型移植&训练指南](https://gitee.com/ascend/pytorch/blob/v1.8.1-3.0.rc2/docs/zh/PyTorch%E7%BD%91%E7%BB%9C%E6%A8%A1%E5%9E%8B%E7%A7%BB%E6%A4%8D&%E8%AE%AD%E7%BB%83%E6%8C%87%E5%8D%97/PyTorch%E7%BD%91%E7%BB%9C%E6%A8%A1%E5%9E%8B%E7%A7%BB%E6%A4%8D&%E8%AE%AD%E7%BB%83%E6%8C%87%E5%8D%97.md)  [PyTorch训练调优&工具使用指南](https://gitee.com/ascend/pytorch/blob/v1.8.1-3.0.rc2/docs/zh/PyTorch%E8%AE%AD%E7%BB%83%E8%B0%83%E4%BC%98&%E5%B7%A5%E5%85%B7%E4%BD%BF%E7%94%A8%E6%8C%87%E5%8D%97/PyTorch%E8%AE%AD%E7%BB%83%E8%B0%83%E4%BC%98&%E5%B7%A5%E5%85%B7%E4%BD%BF%E7%94%A8%E6%8C%87%E5%8D%97.md) |
| PyTorch在线推理 | [PyTorch在线推理指南](https://gitee.com/ascend/pytorch/blob/v1.8.1-3.0.rc2/docs/zh/PyTorch%E5%9C%A8%E7%BA%BF%E6%8E%A8%E7%90%86%E6%8C%87%E5%8D%97/PyTorch%E5%9C%A8%E7%BA%BF%E6%8E%A8%E7%90%86%E6%8C%87%E5%8D%97.md)  [PyTorch算子开发指南](https://gitee.com/ascend/pytorch/blob/v1.8.1-3.0.rc2/docs/zh/PyTorch%E7%AE%97%E5%AD%90%E5%BC%80%E5%8F%91%E6%8C%87%E5%8D%97/PyTorch%E7%AE%97%E5%AD%90%E5%BC%80%E5%8F%91%E6%8C%87%E5%8D%97.md) |
| 使用MindSpore AI框架 | [https://www.mindspore.cn/install](https://www.mindspore.cn/install（MindSpore) （MindSpore框架安装） |

推理应用开发

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| 将已有模型通过ATC工具转换 (命令行)： | <https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/infacldevg/atctool/atlasatc_16_0001.html> |
| 应用开发 (Python) | <https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/infacldevg/aclpythondevg/aclpythondevg_0001.html> |
| 应用开发（C&C++） | <https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/infacldevg/aclcppdevg/aclcppdevg_000000.html> |

算子开发文档：

<https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/60RC1alpha003/infacldevg/aclpythondevg/aclpythondevg_0001.html>

开发工具文档

全流程开发工具链

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| MindStudio | <https://www.hiascend.com/document/detail/zh/mindstudio/50RC1/progressiveknowledge/index.html> |
| 命令行(开发套件包) | <https://www.hiascend.com/document/detail/zh/canncommercial/51RC1/devtools/auxiliarydevtool> |
| MindX DL（昇腾深度学习组件） | <https://www.hiascend.com/document/detail/zh/mindx-dl/30rc2/overview/index.html> （toolbox） |
| MindX Edge | <https://www.hiascend.com/document/detail/zh/mindx-edge/30rc2/overview/index.html> |
| MindX SDK | <https://www.hiascend.com/document/detail/zh/mind-sdk/30rc2/overview/index.html> |

\*开发套件包：主要用于用户开发应用、自定义算子和模型转换。开发套件包包含开发应用程序所需的库文件、开发辅助工具如ATC模型转换工具。

算子开发：

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| CANN算子清单 | <https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/51RC2alpha007/oplist/operatorlist/operatorlist_0001.html> |
| PyTorch API支持清单\_1.5.0 | <https://gitee.com/ascend/pytorch/blob/v1.8.1-3.0.rc1/docs/zh/PyTorch%20API%E6%94%AF%E6%8C%81%E6%B8%85%E5%8D%95.md#npu%E8%87%AA%E5%AE%9A%E4%B9%89%E7%AE%97%E5%AD%90> |
| TBE算子开发 | <https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/51RC2alpha007/opdevg/tbedevg> |
| AI CPU算子开发 | <https://www.hiascend.com/document/detail/zh/CANNCommunityEdition/51RC2alpha007/oplist/fwoperatorlist> |