NVIDIA Jetson Thor Series Modules Certificate of Volatility

Application Note

DA-12401-001_v1.1 | July 2025

Document History

DA-12401-001_v1.1

Version	Date	Description of Change
1.0	June 26, 2025	Initial release
1.1	July 16, 2025	Updated USB section: Changed SODIMM to B2B connector

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Jetson Thor Module

Table 1. Module Description

Model	Part Number
NVIDIA Jetson Thor 128GB	900-13834-0000-000

Volatile Memory

Does the device contain volatile memory (memory whose contents are lost when power is removed)?

YES / NO

If yes, describe the type, size, function, and steps to clear the memory below.

Table 2. Volatile Memory Description

Type	Size	User Modifiable	Function	Steps to Clear Memory
LPDDR5X	128 GB	YES / NO	System memory	Power off

Non-Volatile Memory

Does the device contain non-volatile memory (memory whose contents are retained when power is removed)?

YES / NO

If yes, describe the type, size, function, and steps to clear the memory below.

Table 3. Non-Volatile Memory Description

Type	Size	User Modifiable	Function	Steps to Clear Memory
QSPI	512Mb	YES / NO	Storing bootloader partition.	1. **Put module in RCM (Force Recovery Mode); run the command on host PC:** `$ sudo ./tools/kernel_flash/l4t_initrd_flash.sh --initrd --boot-rootfs jetson-agx-thor-devkit internal` 2. **Login to module through ssh; on host PC:** `$ ssh root@fc00:1:1::2` 3. **Erase QSPI; run command on module:** `-bash-5.0# flash_erase /dev/mtd0 0 0`
EEPROM	256 Bytes	YES / NO	Storing module information.	1. **Boot module to Linux userspace** 2. **Erase either byte; run command on module:** `$ sudo i2cset -f -y 0 0x50 <byte_offset> <new_value>` 3. **Run command to dump data:** `$ sudo i2cdump -f -y 0 0x50`

⚠ **Warning:**

Clearing QSPI – After clearing QSPI, the device cannot be rebooted. User must re-flash the device.

Clearing EEPROM – After clearing EEPROM, the device cannot be re-flashed. To avoid data loss, backup any data before clearing it (e.g., BOARDID and BOARDSKU values). Refer to Flashing to Jetson Without Reading EEPROM for instructions on how to skip the EEPROM read during flashing and correct EEPROM content.

Mass Storage

Does the device contain mass storage memory?

YES / NO

If yes, describe the type, size, function, and steps to clear the memory below.

Table 4. Mass Storage Memory Description

Type	Size	User Modifiable	Function	Steps to Clear Memory
		YES / NO		

USB

Does the device accept USB input and if so, for what purpose (e.g., device firmware updates, etc.)?

YES / NO

If yes, describe below.

There is no USB connector on the module but the USB signals are ready and exposed at the board-to-board (B2B) connector. This enables USB interfaces to USB devices or a USB connector on their carrier board. It is mainly used for device firmware update and board debugging. Could also be used for USB memory stick.

RF/RFID

Does the device use RF or RFID to receive or transmit any data including remote diagnostics (e.g., cellular phone, Bluetooth, etc.)?

YES / NO

If yes, describe below.

Other Transmission Capabilities

Does the device employ any other methods of non-wired access to transmit or receive any data whatsoever (e.g., anything other than standard hard-wired TCP/IP, direct USB, or parallel connections)?

YES / NO

If yes, describe below.

Other Capabilities

Does the device employ any other method of communications such as a Modem to transmit or receive any data whatsoever?

YES / NO

If yes, describe below.

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