**Table of Contents**

[1.1. Workflow 2](#_Toc131848973)

[1.2. CAN BUS command data structure. 3](#_Toc131848974)

[1.2.1. Packet CAN\_ID\_BL\_APP\_ERASE 4](#_Toc131848975)

[1.2.2. Packet CAN\_ID\_BL\_STOP 4](#_Toc131848976)

[1.2.3. Packet CAN\_ID\_BL\_CPU\_RESET 5](#_Toc131848977)

[1.2.4. Packet CAN\_ID\_BL\_VER\_REQ 5](#_Toc131848978)

[1.2.5. Packet CAN\_ID\_BL\_MAP\_REQ 6](#_Toc131848979)

[1.2.6. Packet CAN\_ID\_BL\_ADDR 6](#_Toc131848980)

[1.2.7. Packet CAN\_ID\_BL\_DATA 7](#_Toc131848981)

[1.3. Memory Map 7](#_Toc131848982)

## Workflow

Diagram

Description automatically generated with low confidence

## CAN BUS command data structure.

|  |  |  |  |
| --- | --- | --- | --- |
| **Commands** | **CMD** | **Direction** | **Description** |
| CAN\_ID\_BL\_APP\_ERASE | 0x0CFFD000 | APP 🡪 MCU | [Section 1.2.1](#_Packet_CAN_ID_BL_APP_ERASE) |
| CAN\_ID\_BL\_APP\_ERASE\_APOS | 0x0CFFD001 | MCU 🡪 APP | [Section 1.2.1](#_Packet_CAN_ID_BL_APP_ERASE) |
| CAN\_ID\_BL\_APP\_ERASE\_ANEG | 0x0CFFD002 | MCU 🡪 APP | [Section 1.2.1](#_Packet_CAN_ID_BL_APP_ERASE) |
| CAN\_ID\_BL\_STOP | 0x0CFFD003 | APP 🡪 MCU | [Section 1.2.2](#_Packet_CAN_ID_BL_STOP) |
| CAN\_ID\_BL\_STOP\_APOS | 0x0CFFD004 | MCU 🡪 APP | [Section 1.2.2](#_Packet_CAN_ID_BL_STOP) |
| CAN\_ID\_BL\_STOP\_ANEG | 0x0CFFD005 | MCU 🡪 APP | [Section 1.2.2](#_Packet_CAN_ID_BL_STOP) |
| CAN\_ID\_BL\_CPU\_RESET | 0x0CFFD006 | APP 🡪 MCU | [Section 1.2.3](#_Packet_CAN_ID_BL_CPU_RESET) |
| CAN\_ID\_BL\_CPU\_RESET\_APOS | 0x0CFFD007 | MCU 🡪 APP | [Section 1.2.3](#_Packet_CAN_ID_BL_CPU_RESET) |
| CAN\_ID\_BL\_VER\_REQ | 0x0CFFD008 | APP 🡪 MCU | [Section 1.2.4](#_Packet_CAN_ID_BL_VER_REQ) |
| CAN\_ID\_BL\_VER\_REQ\_RSP | 0x0CFFD009 | MCU 🡪 APP | [Section 1.2.4](#_Packet_CAN_ID_BL_VER_REQ) |
| CAN\_ID\_BL\_MAP\_REQ | 0x0CFFD00A | APP 🡪 MCU | [Section 1.2.5](#_Packet_CAN_ID_BL_MAP_REQ) |
| CAN\_ID\_BL\_MAP\_REQ\_RSP\_ARM | 0x0CFFD00B | MCU 🡪 APP | [Section 1.2.5](#_Packet_CAN_ID_BL_MAP_REQ) |
| CAN\_ID\_BL\_MAP\_REQ\_RSP\_C2K | 0x0CFFD00C | MCU 🡪 APP | [Section 1.2.5](#_Packet_CAN_ID_BL_MAP_REQ) |
| CAN\_ID\_BL\_ADDR | 0x0CFFD020 | APP 🡪 MCU | [Section 1.2.6](#_Packet_CAN_ID_BL_ADDR) |
| CAN\_ID\_BL\_ADDR\_APOS | 0x0CFFD021 | MCU 🡪 APP | [Section 1.2.6](#_Packet_CAN_ID_BL_ADDR) |
| CAN\_ID\_BL\_ADDR\_ANEG | 0x0CFFD022 | MCU 🡪 APP | [Section 1.2.6](#_Packet_CAN_ID_BL_ADDR) |
| CAN\_ID\_BL\_DATA | 0x0CFFD023 | APP 🡪 MCU | [Section 1.2.7](#_Packet_CAN_ID_BL_DATA) |
| CAN\_ID\_BL\_DATA\_APOS | 0x0CFFD024 | MCU 🡪 APP | [Section 1.2.7](#_Packet_CAN_ID_BL_DATA) |
| CAN\_ID\_BL\_DATA\_ANEG | 0x0CFFD025 | MCU 🡪 APP | [Section 1.2.7](#_Packet_CAN_ID_BL_DATA) |

### Packet CAN\_ID\_BL\_APP\_ERASE

This command is used to erase the application on the on-chip flash of the MCU.

Diagram

Description automatically generated

### Packet CAN\_ID\_BL\_STOP

This command is used to send the transmit stop command to the MCU. Then CRC will be sent out.  
The MCU will check the CRC and then jump to the Application.

Diagram

Description automatically generated

### Packet CAN\_ID\_BL\_CPU\_RESET

This command is used to reset the MCU from the Application to the bootloader.

Diagram

Description automatically generated

### Packet CAN\_ID\_BL\_VER\_REQ

This command is used to request version information from the MCU.

Diagram

Description automatically generated

### Packet CAN\_ID\_BL\_MAP\_REQ

This command is used to request MCU’s memory map.

Diagram

Description automatically generated

### Packet CAN\_ID\_BL\_ADDR

This command is used to set the flash address and size to write the image.

Diagram

Description automatically generated

### Packet CAN\_ID\_BL\_DATA

This command is used to send the image data.

Diagram

Description automatically generated with medium confidence

## Memory Map