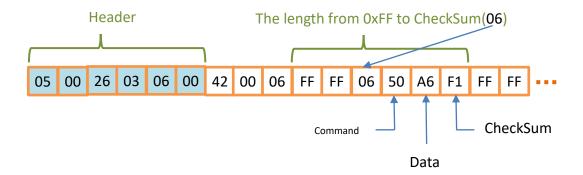
Focal TP Read Write Steps •

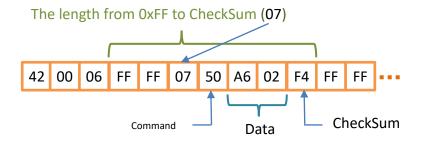
There are 3 steps for each Read/Write process are listed below:

- ① Write Request.
- ② Write Read Request.
- ③ Read Response.
- 1. The total length of "Write Request Packet" are 72Bytes , Padding 0xFF after "CheckSum" byte:



2. The length for "Write Read Request Packet" is 6 Bytes, the data are fixed:

3. The length of "Read Response Packet" is 66Bytes, Padding 0xFF after "CheckSum" byte:



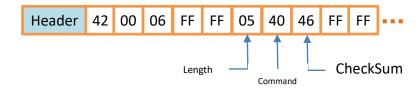
Command List:

1.	CMD_ENTER_UPGRADE_MODE	0x40
2.	CMD_CHECK_CURRENT_STATE	0x41
3.	CMD_READY_FOR_UPGRADE	0x42
4.	CMD_SEND_DATA	0x43
5.	CMD_UPGRADE_CHECKSUM	0x44
6.	CMD_EXIT_UPRADE_MODE	0x45
7.	CMD_USB_READ_UPGRADE_ID	0x46
8.	CMD_USB_ERASE_FLASH	0x47
9.	CMD_READ_REGISTER	0x50
10.	CMD_WRITE_REGISTER	0x51

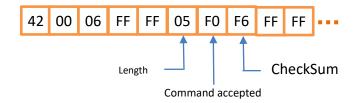
Focal Command Package Format:

1. CMD_ENTER_UPGRADE_MODE 0x40

Send Packet:

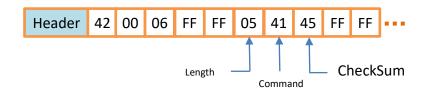


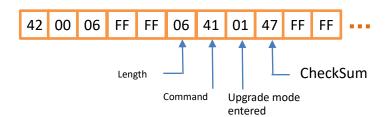
Return Packet:



2. CMD_CHECK_CURRENT_STATE 0x41

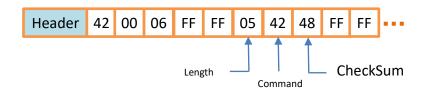
Send Packet:



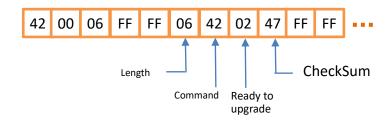


3. CMD_READY_FOR_UPGRADE 0x42

Send Packet:



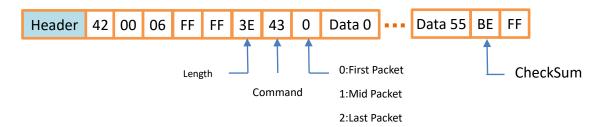
Return Packet:

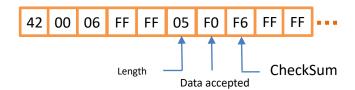


4. CMD_SEND_DATA

0x43

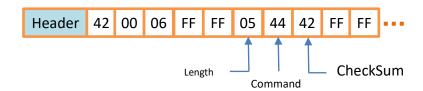
Send Packet:



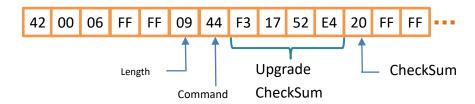


5. CMD_UPGRADE_CHECKSUM 0x44

Send Packet:



Return Packet:

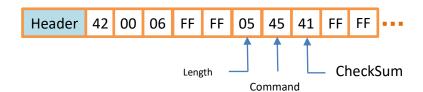


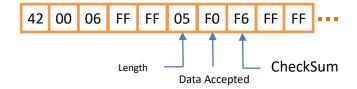
Upgrade Checksum =

(RePacket[10] << 24) + (RePacket[9] << 16) + (RePacket[8] << 8) + RePacket[7];

6. CMD_EXIT_UPRADE_MODE 0x45

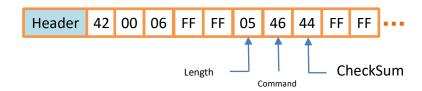
Send Packet:



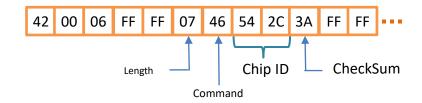


7. CMD_USB_READ_UPGRADE_ID 0x46

Send Packet:

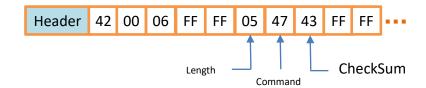


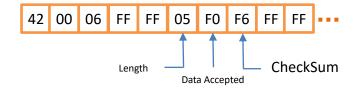
Return Packet:



8. CMD_USB_ERASE_FLASH 0x47

Send Packet:

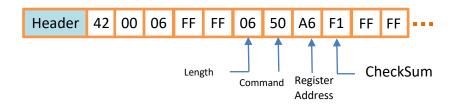




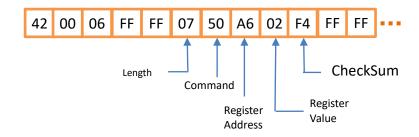
9. CMD_READ_REGISTER

0x50

Send Packet:



Return Packet:



10.CMD_WRITE_REGISTER

0x51

Send Packet:

