

MicroBlaze API Commands (MB Commands)

These commands differ from USB FX2 API commands because they are executed by the MicroBlaze and shall be sent with the I2C_WRITE USB FX2 API command; more precisely, after it in the Command byte array. I2C_WRITE USB FX2 API command (with the Command byte array) is itself a parameter of USB FX2 API function TE_USB_FX2_SendCommand().

The byte array shall be properly initialized using instructions similar to the ones listed below:

Command[0] = I2C_WRITE;

Command[1] = MB_I2C_ADRESS;

Command[2] = I2C_BYTES;

Command[3] = 0;

Command[4] = 0;

Command[5] = 0;

Command[6] = Command2MB;

Command2MB it is one of the commands listed in the table below. This command writes data (from 1 to 32 bytes) to the requested I2C address.

Byte	Value	Description
1	0xAD	I2C_WRITE USB FX2 API command ID
2	0x3F	I2C Address MB_I2C_ADRESS=0x3F
3	0x0C (12)	FX2_Parameters.I2C_BYTES=0x0C Number of bytes to write (max 32)
4	0x00	-
5	0x00	-
6	0x00	-
7	Command2MB	MB_Commands to send to the MicroBlaze
From 8 to 64	-	Not used

MB_Command Packet Layout.

Reply packet doesn't usually contain any usable information (only for Command2MB = MB_Commands = [FX22MB_REG0_PING command](#) the reply is "pong" 0x706F6E67 value).