

Header						Address	Sub-Address	Command	Data Length	Data
0	0	0	0	0	FF	0-255	0-255	0-255	0-255	

				Data																																								
	Action	Sub-Address	Command	Data Length	Byte:1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21																			
Main	NOOP	0	0	0																																								
	Reserve for core protocol	0	1	0																																								
	Start	0	2	0																																								
	Pause	0	3	0																																								
	Stop	0	4	0																																								
	Debug LED	0	5	0																																								
	Timing Master	0	6	0																																								
	Max Run Time	0	7	4	Max Run Time (mS)																																							
	Set Stored Name	0	8	1-15	String (1-15 Characters, Null-terminated, Null padded)																																							
	Set Device Address	0	9	1	2-255																																							
	Set Common Line for Step Pulsing	0	10	1	0,1,2																																							
	Return Home All	0	11	0																																								
	Status Request	0	100		<Status Type>	<returns> with header and master address in front (00 00 00 00 00 FF 00 00 01 Length Data)																																						
	-Firmware Version	0	100	0	Byte																																							
	-Run Status	0	101	0	Byte																																							
	-Run Time	0	102	0	Ulong																																							
	-Currently Exposing	0	103	0	Byte																																							
	-Timing Master Value	0	104	0	Byte																																							
	-Name	0	105	0	String (1-15 Characters, Null-terminated, Null padded)																																							
	Motors	NOOP	1-3	0	0																																							
Reserve for core protocol		1-3	1	0																																								
Motor Enable		1-3	2	1	True/False (1,0)																																							
Direction		1-3	3	1	0, 1																																							
Max Steps Travel		1-3	4	4	Max Steps																																							
Set Home Here		1-3	5	0																																								
Backlash Amount		1-3	6	1	Steps																																							
Continuous Speed		1-3	7	4	Steps/Second (float)																																							
Easing Mode		1-3	8	1	1, 2, 3																																							
Continuous Mode Enable		1-3	9	1	True/False (1,0)																																							
Delay Motor Start		1-3	10	4	Delayed Start Time (mS)																																							
Steps each interval		1-3	11	2	Steps																																							
Move Motor Simple		1-3	12	5	Dir (0, 1)				Steps				31 (pad)				Total Travel Time				31 (pad)				Accel Time mS				31 (pad)				Decel Time mS											
Move Motor Complex		1-3	13	20	Dir (0, 1)				Steps				31 (pad)				Total Travel Time				31 (pad)				Accel Time mS				31 (pad)				Decel Time											
Plan Travel		1-3	14	22	Dir (0, 1)				Type (0, 1)				31 (pad)				Steps				31 (pad)				Total Travel Time				31 (pad)				Accel Time mS				31 (pad)				Decel Time			
Clear Planned Travel		1-3	15	0																																								
MicroStep Level		1-3	16	1	1, 2, 4, 8, 16																																							
Motor Sleep		1-3	17	1	True/False (1,0)																																							
Motor Max Step Rate		1-3	18	2	Steps/Second																																							
Motor Max Step Speed		1-3	19	2	Steps/Second																																							
Send Motor Home		1-3	20	0																																								
Stop Motor Now		1-3	21	0																																								
Set Autopause Option for SMS		1-3	22	1	True/False (1,0)																																							
Step Forward One Step for SMS		1-3	23	0	May need camera?																																							
Step Back One Step for SMS		1-3	24	0	May need camera?																																							
Status Request		1-3	100		<Status Type>	<returns> with header and master address in front (00 00 00 00 00 FF 00 00 01 Length Data)																																						
Motor Enable		1-3	100	0	True/False (1,0)																																							
Direction		1-3	101	0	0, 1																																							
Max Steps Travel		1-3	102	0	Max Steps																																							
Motor Steps Moved		1-3	103	0	Steps																																							
Backlash Amount		1-3	104	0	Steps																																							
Continuous Speed		1-3	105	0	Steps/Second (float)																																							
Easing Mode		1-3	106	0	1, 2, 3																																							
Delay Motor Start		1-3	107	0	Delayed Start Time (mS)																																							
Steps each interval		1-3	108	0	Steps																																							
Motor Distance From Home		1-3	109	0	Steps																																							
MicroStep Level		1-3	110	0	1, 2, 4, 8, 16																																							
Autopause		1-3	111	0	True/False (1,0)																																							
Cameras		NOOP	4-5	0	0																																							
		Reserve for core protocol	4-5	1	0																																							
	Camera Enable	4-5	2	1	True/False (1,0)																																							
	Expose Now	4-5	3	4	Exposure Time (mS)																																							
	Exposure Time	4-5	4	4	Exposure Time (mS)																																							
	Focus Time	4-5	5	2	Focus Time (mS)																																							
	Max Shots	4-5	6	2	Count																																							
	Exposure Delay	4-5	7	2	Delay (mS)																																							

Focus w Shutter	4-5	8	1	1, 0																
Repeat Cycles	4-5	9	1	Count																
Interval	4-5	10	4		Interval Time (mS)															
Status Request	4-5	100		<Status Type>	<returns> with header and master address in front (00 00 00 00 00 FF 00 00 01 Length Data)															
Camera Enable	4-5	100	0	True/False (1.0)																
Exposing now?	4-5	101	0	True/False (1.0)																
Exposure Time	4-5	102	0		Exposure Time (mS)															
Focus Time	4-5	103	0		Focus Time (mS)															
Max Shots	4-5	104	0		Count															
Exposure Delay	4-5	105	0		Delay (mS)															
Focus w Shutter	4-5	106	0	1, 0																
Repeat Cycles	4-5	107	0	Count																

[illegible]

[illegible]

Sheet1