Data packet format

uint8 **cmd**				
uint8 ***'R'***	uint8 **addr**			
uint8 ***'W'***	uint8 **addr**	uint8 **value**		
uint8 ***'F'***	int32 **fluidics_delay_us**			
uint8 ***'L'***	uint8 **active**	uint8 **idle**	bool **ALEX**	
uint8 ***'I'***	uint32 **interframe_time_us**			
uint8 ***'E'***	uint32 **strobe_duration_us**			
uint8 ***'A'***	uint32 **ALEX_cycle_delay_us**			
uint8 ***'C'***	uint32 **n_frames**			
uint8 ***'S'***	uint32 **n_frames**			
uint8 ***'Q'***				
i	0	1	2	3	4

Description	Mode	Reply
Read register	*NA*	uint8 **value**
Write register	*NA*	
Set Fluidics injection delay (if negative - before imaging)	CS	*OK\n*
Set Laser shutter states	CS	*OK\n*
Set Interframe time	CS	*OK\n*
Set strobe flash duration (laser Exposure)	S	*OK\n*
Set delay between ALEX cycles	S	*OK\n*
Start Continuous imaging	C	*OK\n*
Start Stroboscopic imaging	S	*OK\n*
Stop (Quit)	CS	*OK\n*

Legend

Normal font shows data type (uint8, uint16).
Bold font shows member names.
Gray hatched areas are filled with ZERO.
Modes: C - continuous, S - stroboscopic (includes ALEX and timelapse)

Notes

Each data packet is always 5 byte long. If shorter than that, pad it with zeros.
On startup, the system prints *Arduino is ready. Firmware version:* <x.y.z>*\n*
Wrong formatted packets are silently ignored (wrong command or too short data packet).
If a command has wrong argument values, the reply is *ERR\n*
Once the data acquisition is completed, the reply is *DONE* \n