External Flash Format

data_header_t
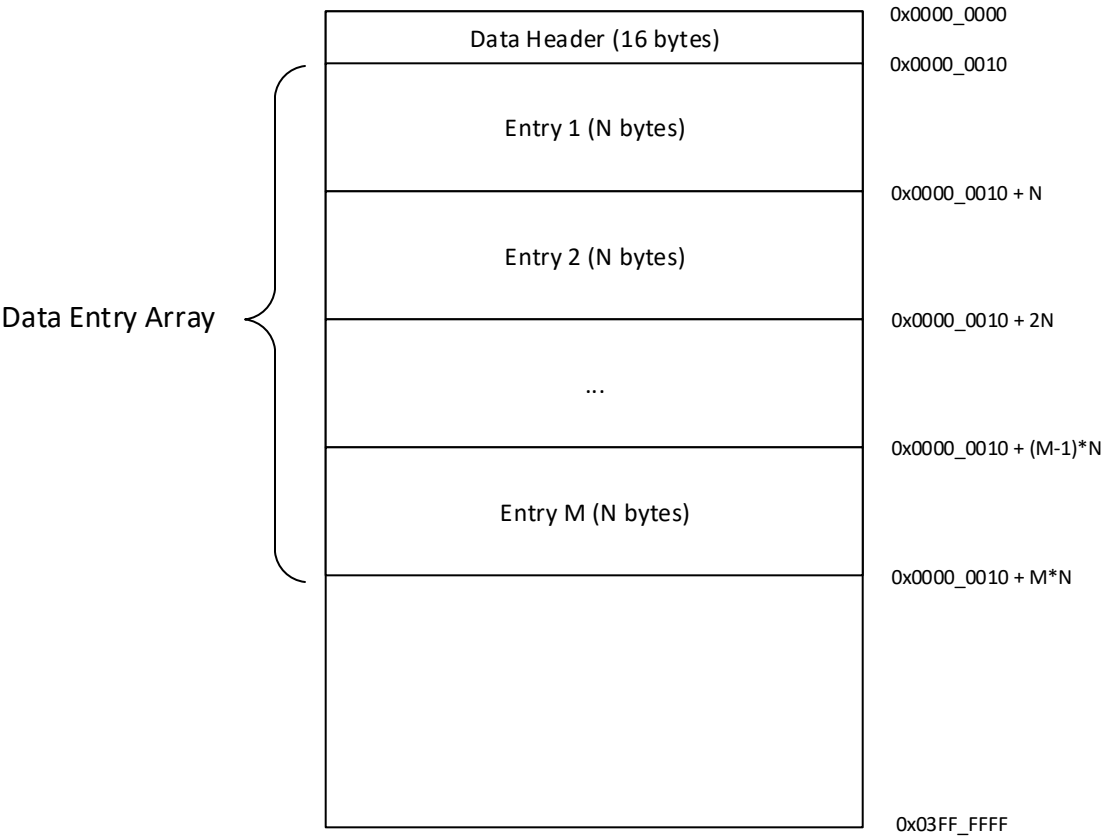
- magic_num : uint16_t
- version_str : uint8_t [0...9]
- entry_size : uint16_t
- num_entries : uint16_t

data_entry_t

- timer_count : uint32_t
- sensor1_data : sensor1_data_t
- sensor2_data : sensor2_data_t
- ...
- sensorN_data: sensorN_data_t

Magic Number: 0xCAFE

Version String: "DEBUG-XXX"
"RELEA-XXX"

Entry Size: N = sizeof(data_entry_t)

Num Entries: M

Memory Layout

	Address
Data Header (16 bytes)	0x0000_0000
Entry 1 (N bytes)	0x0000_0010
Entry 2 (N bytes)	0x0000_0010 + N
...	0x0000_0010 + 2N
	0x0000_0010 + (M-1)*N
Entry M (N bytes)	0x0000_0010 + M*N
	0x03FF_FFFF

Data Entry Array

Total size: 512Mb