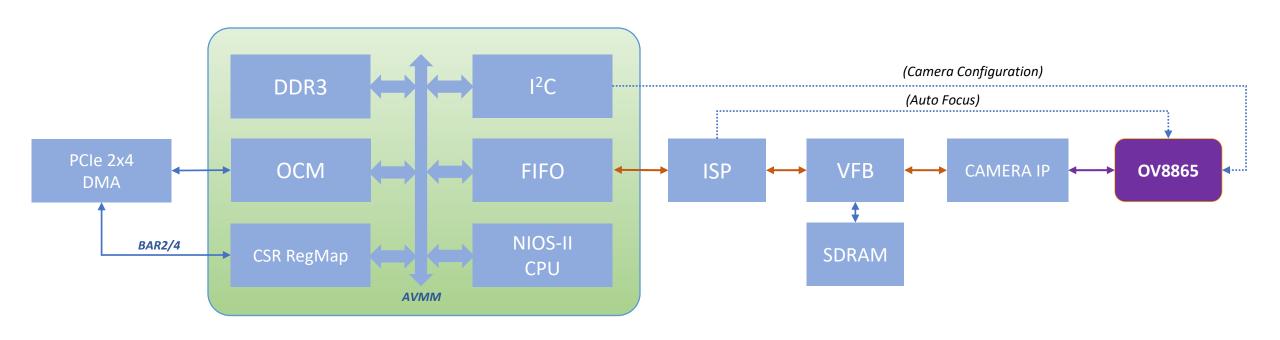
MIPI-CSI Camera Hardware Architecture



Control Status Registers (CSR)

		Description			
0	Frame drop [bit 24]	DMA error [bit 16]	DDR3 [bit 8]	Camera Status [bit 0]	Initialization status (RO)
1				Autofocus_en [bit 0]	Autofocus control (RW)
2	Frame_size_h(640)	Frame_size_h(640)	Frame_size_v(480)	Frame_size_v(480)	CAM frame size (RO)
3			CAM DMA Address (L)		
4		CAM DMA Address (H)			
5					CAM DMA Size (RO)
6			Memory Availability Region 1 [bit 8]	Memory Availability Region 0 [bit 0]	CAM DMA Status (RW)
7					Debug Data (RO)

Frame Layout - Package Header and Footer

Byte 7	Byte 6	Byte 5	Byte 4	Byte 3	Byte 2	Byte 1	Byte 0
Header ID: 0x1E 0xAD 0xCA 0xFE				Frame	Package	Package size (1-65535)	
			counter	counter	Unite - KB		
				(0-255)	(0-255)	0 – invalid va	alue

Byte 7	Byte 6	Byte 5	Byte 4	Byte 3	Byte 2	Byte 1	Byte 0
Normal ID: 0x55 0x55 0x55				Frame counter (0-255)	Package counter (0-255)	Package size Unite - KB 0 — invalid va	,

Byte 7	Byte 6	Byte 5	Byte 4	Byte 3	Byte 2	Byte 1	Byte 0
Footer ID: 0xDE 0xAD 0xCA 0xFE				Frame counter	Package counter	Package size (1-65535) Unite - KB	
				(0-255)	(0-255)	0 – invalid va	alue