

S.No	Block Available	Purpose	Significance
1.	DDR Double data rate synchronous dynamic random-access memory	Ranging the high- performance computing and memory unit	Low latency, low power consumption
2.	Video codec accelerator	Encoding and decoding of audio and videos	Using the less battery and real time processing and high throughput
3.	JTAG Joint Test Action Group	Used to debug and test the chip	Multiple vendor chips inside a single board then JTAG is used to test the chip
4.	I2C Inter Integrated Circuit	Protocol for communication	It uses two serial communication protocol using serial data line and serial clock line
5.	SPI Serial Peripheral Interface	Protocol for communication	Used to transfer data between microcontroller and sensor peripheral
6.	EDMA Enhanced Direct memory access	Facilitate high speed data transfer between peripherals and memory without involving the CPU	High transfer rate, flexible transfer mode, multiple channels
7.	UART Universal Asynchronous receiver and transmitter	Communication protocol	Uses for the serial communication over a computer or peripheral device serial port
8.	GPMC General Purpose Memory Controller	For timing control	Provide generic method to calculate GPMC timings from GPMC peripheral timing
9.	PCIe Peripheral Component Interconnect	High speed interface	It is used for connecting various internal component in computer systems
10.	WTD Watchdog Timer	Generates the system reset if the system fails	Automatic recovery, fault detection

11.	QSPI Quad Serial Peripheral Interface	Serial Communication Interface	It is used for communication interface with the flash memory device
12.	VAP Vision Acceleration PAC	Processing for the vision task	High throughput for parallel processing capabilities
13.	DCAN Display and camera network	Networking Connectivity and IO	Provide efficient networking and data transmission between multiple display unit and camera systems
14.	DVOUT HDMI Digital Video Output via HDMI	Transmit the high-definition video	high resolution, multi-channel audio
15.	McASP Multi Channel audio Serial port	Interface used in audio data stream	DSP and microcontroller handle audio data stream