

# Macnica IP List



Category	Functions
Image Processing	Color spacing/size transform(Bi-Cubic, Bi-Linear) /video IP conversion (Bob ,Weave , Motion Adaptive)/bayer conversion (linear, ACPI) /BT.656 (decode/encode)/video timing controller/chroma re-sampling/frame controller/motion sensing (brightness comparison and detection per macro block)
Memory Controller	SDRAM, DDR2 SDRAM controller (for Multi Bank fast access)
Security	AES(certified by US NIST / SHA-1 / MD5)
Interface	I2C / SPI PCI(32/64bit 33/66MHz Master, Target, PCI Local Bus Specification compatible with Revision 2.3 (5V Rev.)
Image Filter	Median Filter / Gaussian Filter / Laplacian Filter
Arithmetic IP	Multiplier / divider / parallel adder