




# Edge AI processor

Edge AI processor SoC

	 <b>ATS3607D</b>	 <b>ATS3609D</b>	 <b>ATS3619</b>
<b>Audio IC</b>			
<b>DSP</b>	CEVA X2@350MHz	CEVA X2@350MHz	Tensilca HIFI4@ 294.912MHz
<b>FPU</b>	SIMD VFPU	SIMD VFPU	2-way SIMD VFPU
<b>NN</b>	NN-LIB	NN-LIB	NN-LIB
<b>32*32 MACs</b>	700M	700M	1180M
<b>GOPS (INT8)</b>	2.80	2.80	4.72
<b>VLIW</b>	5	5	4
<b>Accumlator Width</b>	64 bit	64 bit	72 bit
<b>SRAM</b>	656KB SRAM+ 32MB DDRI	656KB SRAM+ 64MB DDRII	352KB SRAM
<b>Slave Mode</b>	×	×	SPI Slave/I2C Slave
<b>Master Mode</b>	Serial Nor/NAND	Serial Nor/NAND	Serial Nor
<b>Sigma-delta ADC</b>	6 chs SNR>102dB	8 chs SNR>102dB	2 chs SNR>113dB
<b>Sigma-delta DAC</b>	2 chs SNR>108dB	2 chs SNR>108dB	2 chs SNR>120dB
<b>DMIC</b>	up to 8 DMIC	up to 8 DMIC	up to 2 DMIC
<b>Audio interface</b>	I2S/TDM(4/8) Tx+I2S/ TDM(4/8) Rx+SPDIFTX/RX		2*I2S/I2S_8D/TDM (4/8/16) Tx+2*I2S/ I2S_8D/TDM(4/8/16) Rx
<b>ASRC</b>	×	×	8 chs THD+ N<-140dB ASRC
<b>MCU</b>	Cortex-A5@840MMHz	Cortex-A5@840MMHz	×
<b>External memory</b>	SD/MMC Card / eMMC	SD/MMC Card / eMMC	×
<b>Other Interface</b>	IIC/SPI/UART/GPIO/ PWM/ SARADC/ USB EHCI/USB-device/CPU LCD		IIC/SPI/UART/GPIO
<b>Package</b>	QFN68 (8×8mm)	EPAD128 (14×14mm)	QFN48 (6×6mm)