**Controllers & Processors**

**BA2x™ 32-bit Processors**
- Application Processors
  - BA25 Full
  - BA22-AP Basic
  - BA22-CE Embedded
  - BA22-DE Deeply Embedded
  - BA21 Low-Power Deeply Embedded
  - BA20 PipelineZero™ Embedded
- Peripheral & Platforms
  - AMBA AHB/APB & AXI
- Development IDE, tools, & boards

**8/16-bit Microcontrollers**
- S8051X3 super fast, advanced
- T8051X3 tiny, fast
- R8051X2 fast, mature
- L8051X1C legacy-configurable
- S80251 super-fast 16-bit

**Compression**

**Lossless Data Compression**
- GZIP/ZLIB/Deflate Compressor
- GUNZIP/ZLIB/Inflate Decompressor

**H.264/AVC**
- Encoders: High, Main, & Baseline Profiles; Low-Latency Option
- Intra Video Decoder
- Hardware RTP Stack for H.264

**JPEG 2000**
- Encoder, J2K Platform

**JPEG**
- Encoder, Decoder & Codec
- Scalado & 12/8-bit Ext. Encoders

**Lossless Image Compression**
- LJPEG Encoder & Decoder
- JPEG-LS Encoder & Decoder

**Security & Encryption**

**AES**
- AES programmable Encrypt & Decrypt
- AES optimized 32-, 128-bit data path
- AES GCM

**DES**
- DES Single, DES Triple

**Other Processors**
- MD5, SHA-1, SHA-256

**Interconnects**

**DisplayPort**
- Transmitter, Receiver

**Ethernet MAC**
- 1G eMAC Controller

**PCI Express**
- PCI Express Endpoint Controllers: X1/X4, X8, PCIe Application Interface

**PCI**
- 2.0 Controller/MD Controller

**I2C**
- Master, Slave

**LIN**
- LIN Controller

**SPI**
- Master/Slave, Quad

**Peripherals**

**Device Controllers**
- Smart Card Reader

**NOR Flash Controllers**
- Serial/SPI, Parallel

**Network Stacks**
- 1G/10G UDP/IP, Hardware RTP, MPEG Transport Stream Encapsulator

**Data Link Controllers**
- SDLC, HDLC

**AMBA Infrastructure**
- AMBA, AHB 32-bit DMA

**Legacy Peripherals**
- DMA Controllers: 8237, 82380
- UARTs: 16450S, 16550S, & 16750S
- Timer/Counter: 8254

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Please see our website for product datasheets, sample implementation results, and background info on the company and our customers.

www.cast-inc.com

+1 201.391.8300 • info@cast-inc.com

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February 2015