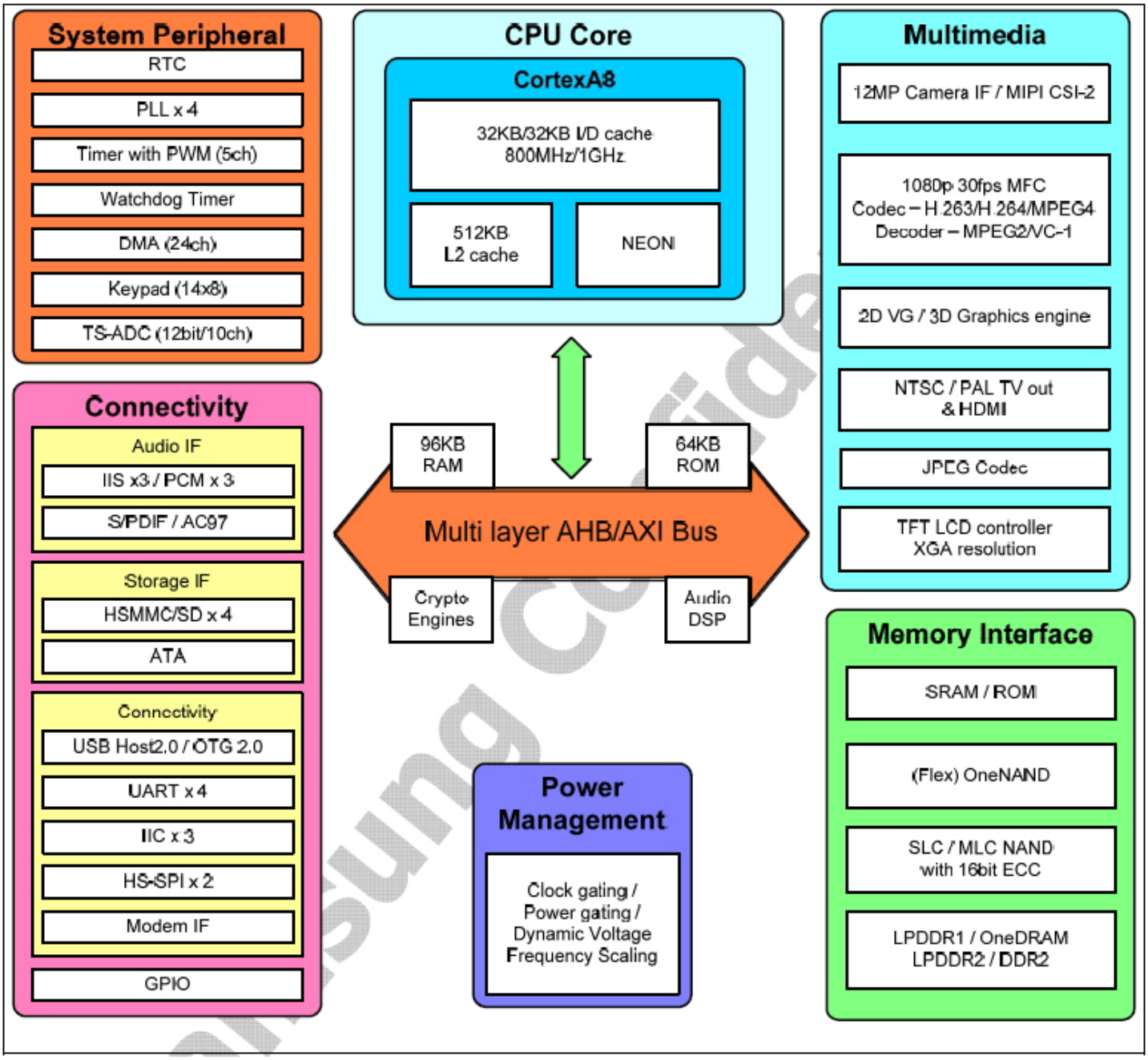
System Peripheral
RTC
PLL x 4
Timer with PWM (5ch)
Watchdog Timer
DMA (24ch)
Keypad (14x8)
TS-ADC (12bit/10ch)
CPU Core
CortexA8
32KB/32KB I/D cache
800MHz/1GHz
512KB
L2 cache
NEON
Multimedia
12MP Camera IF / MIPI CSI-2
1080p 30fps MFC
Codec – H.263/H.264/MPEG4
Decoder – MPEG2/VC-1
2D VG / 3D Graphics engine
NTSC / PAL TV out
& HDMI
JPEG Codec
TFT LCD controller
XGA resolution
Connectivity
Audio IF
IIS x3 / PCM x 3
S/PDIF / AC97
Storage IF
HSMMC/SD x 4
ATA
Connectivity
USB Host2.0 / OTG 2.0
UART x 4
IIC x 3
HS-SPI x 2
Modem IF
GPIO
96KB
RAM
64KB
ROM
Multi layer AHB/AXI Bus
Crypto
Engines
Audio
DSP
Power
Management
Clock gating /
Power gating /
Dynamic Voltage
Frequency Scaling
Memory Interface
SRAM / ROM
(Flex) OneNAND
SLC / MLC NAND
with 16bit ECC
LPDDR1 / OneDRAM
LPDDR2 / DDR2