



## KEY FEATURES AND BENEFITS

FEATURES	BENEFITS
CPU	<ul style="list-style-type: none"> <li>• Leading Edge Performance with ARM Cortex Dual-Core CPU at 1.0 GHZ</li> <li>• NEON™ Engine for broad support of codecs</li> <li>• ARM Cortex R4 for power management, or other tasks while SoC is active</li> <li>• UPC with 2x ARM9-class processors for dedicated real time control</li> </ul>
Memory	<ul style="list-style-type: none"> <li>• Fast, wide bus supports fast page processing</li> <li>• Up to 4GB DDR3L, DDR4 32-bit provides 1600 MT/s per pin</li> </ul>
GPU	<ul style="list-style-type: none"> <li>• Vivante GC400LT for smooth 3D and 2D video and graphics</li> <li>• Peak Rate rendering at 30 Mtriangles/s, 0.15 Gpixels/s, and 75 M Vert/sec</li> <li>• Support for industry standard APIs, including OpenGL ES 2.0/1.1, OpenVG 1.1, DirectFB, BLTsville, 2D GAL</li> </ul>
Imaging	<ul style="list-style-type: none"> <li>• Hardware pipeline dedicated to image processing, running at 200 Mpixel/sec</li> <li>• Mono copy: 150 IPM (dual 75 IPM scan, 150 ppm print output) wide format A4</li> <li>• Color Copy: 60 IPM (dual 30 IPM scan, 60 ppm print output) wide format A4</li> <li>• Duplex Scanning</li> </ul>
Connectivity	<ul style="list-style-type: none"> <li>• Broad set of connectivity features to meet individual customer needs. Key features include: <ul style="list-style-type: none"> <li>- USB 2.0/3.0</li> <li>- PCIE Gen 2</li> <li>- SCCP, a configurable serial port capable of emulating standard and customer-unique serial communication protocols. Marvell's MoChi interface enables expansion through Marvell's growing portfolio of MoChi Southbridge solutions</li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>• Secure Boot from NAND and eMMC</li> <li>• Hardware authentication, encryption and decryption for industry standards protocols such as: AES, 3DES, RC4, SHA256, SHA1, MD5</li> <li>• Integrated support for Marvell PA810 Security Chip for Consumables Management</li> <li>• Currency Detection</li> </ul>
Development Kit	<ul style="list-style-type: none"> <li>• Full Hardware Development Kit (HDK, including 88PA6220 Evaluation Board for fast evaluation and design</li> <li>• Full Linux Software Development Kit (SDK)</li> <li>• Complete HDK and SDK Documentation</li> </ul>

## TARGET APPLICATIONS

- Mainstream Class Printers and MFPs
- Inkjet, Laser, LED technologies
- Consumer Electronic Devices
- Dedicated Document Scanners
- General Purpose Embedded Controller

