

KEY FEATURES AND BENEFITS

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

TARGET APPLICATIONS

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

