



# JPEG Decoder

## Product Data Sheet

v1.2

Updated: July 22, 2010

### Features

- Supports Joint Photographic Experts Group (JPEG) image decoding
- Supports baseline and progressive modes
- Configurable support all the integer sampling formats allowed by the Baseline DCT coding. (4:4:4, 4:2:2, 4:2:0, 4:1:1 etc)
- Supports color conversion from YUV to RGB-565 or RGB-888.
- Configurable support for interleaved UYVY format
- Supports restart markers
- Supports JPEG, JFIF and EXIF thumbnails
- Hardware acceleration on i.MX platforms that have VPU

### Supported Platforms

- Hardware – i.MX ARM9™ i.MX ARM11™ and ARM Cortex-A8™ platforms
- Software – eLinux, Windows® Embedded CE operating systems

### Performance Details

#### **i.MX ARM9 Platforms**

Typical Specifications: 1MP  
Performance (MHz): 70  
Memory Footprint (KB):  
– ROM: 50  
– RAM: 20.75

#### **i.MX ARM11 Platforms**

Typical Specifications: 1MP  
Performance (MHz): 50  
Memory Footprint (KB):  
– ROM: 50  
– RAM: 20.75

#### **i.MX Cortex-A8 Platforms**

Typical Specifications: 1MP  
Performance (MHz) 50  
Memory Footprint (KB):  
– ROM: 50  
– RAM: 20.75

Performance measurements can deviate based on ARM core, memory and cache configuration on the board. To measure directly, enable the TIME\_PROFILE in the test application provided in the release package.

*For further details, contact Freescale customer representative.*