

Connected Media Frame

## Emma Mobile Turnkey Design



Connected Digital “Photo Frame” and Portable Media Player in one device - Based on EMMA Mobile Turnkey design

### Underlying Turnkey design

- Based on „EMMA Mobile 1“ SoC
- 500MHz ARM 11
- MPEG4, H.264 and VC 1 SD video accelerator
- MP3, AAC and WMA audio accelerator
- Linux OS
- Other Turnkey options by NEC Electronics/Kwest
  - Connected Alarm Clock
  - Connected Car Multimedia
- Customizable HW and SW
- Volume production April 2010
- Turnkey partner: Kwest GmbH

### Features:

- 7“inch 800 x 480 Pixel Touch Screen
- Rich connectivity through WLAN
- 802.11n and Bluetooth 2.1EDR
- Full size, high quality video playback
- Enhanced media player, able to mash-up content from multi-sources
- Embedded internet browser and online widgets
- Runs from mains or battery
- Customizable HMI
- Flexible ownership and production model

Tremolo BufferIC series

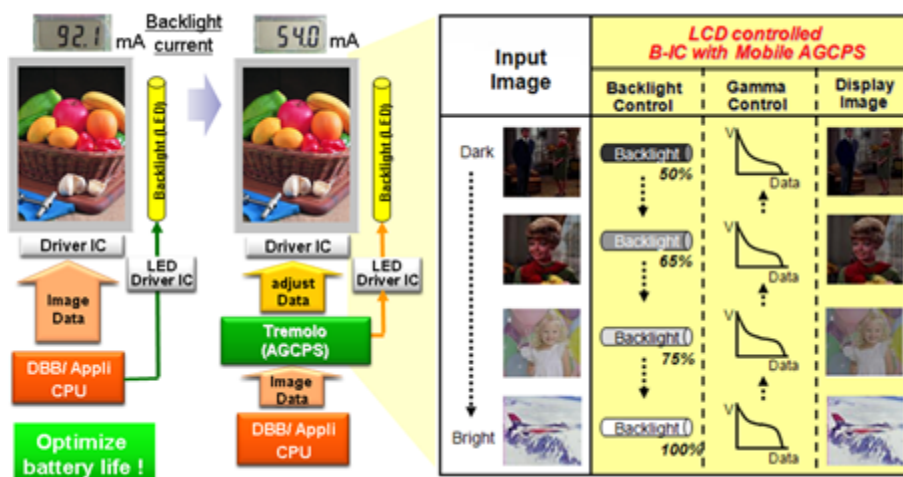
# Intelligent BufferIC platform



## Concept of Intelligent Mobile Display

- Longer battery life by saving power
- Less load and easy access to display
- Higher resolution & Quality
- Lower power Display
- Intelligent Display functions (incl. 3D)

- Drastically lowered Bandwidth requirements
- Allows cost efficient processor platforms, enables cross platform usage
- Support of high speed serial interface standards, including MIPI & MDDI
- Embedded DRAM technology, allows efficient ramless display modules
- Display modules resolutions from WVGA or nHD up to WSXGA
- Integration of any kind of image enhancement algorithm,
  - either customer specific or pre-developed by NEC Electronics, e.g. the AGCPS algorithm a Tremolo-M feature.



ISP for high quality pictures and HD1080p video capture

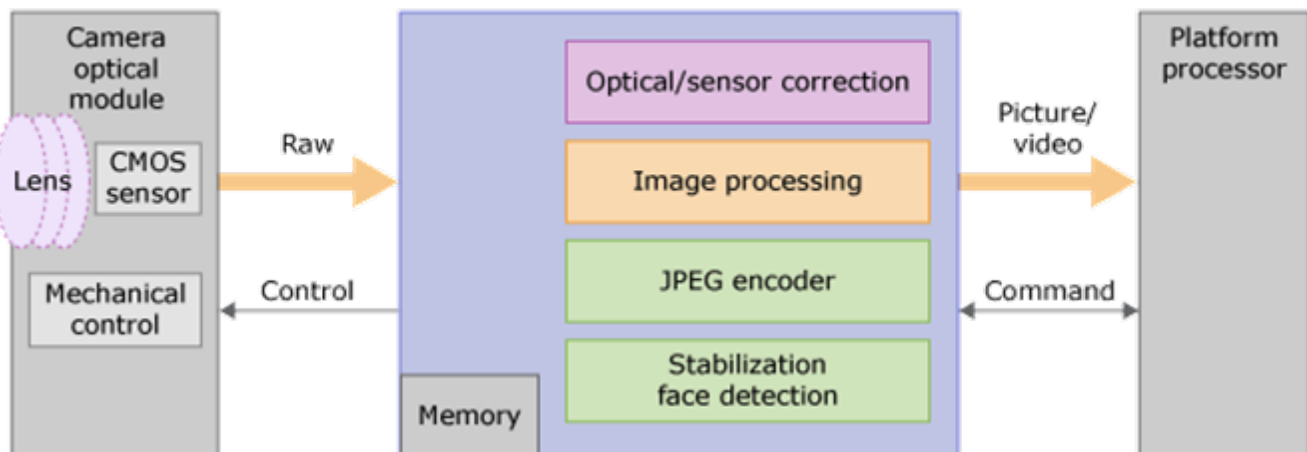
# CE Camera Engine series



## CE1512 the latest Image Signal Processor (ISP) solution from NEC Electronics

With hardware-assisted features enabling high end camera performance within slim phones

CE13x/14x/15x series



### Camera Engine CE 1512 features:

- High quality pictures up to 12Mpixel
- High definition videos in HD1080p with 30 fps
- Advanced camera functions such as
  - image stabilization
  - high speed face detection