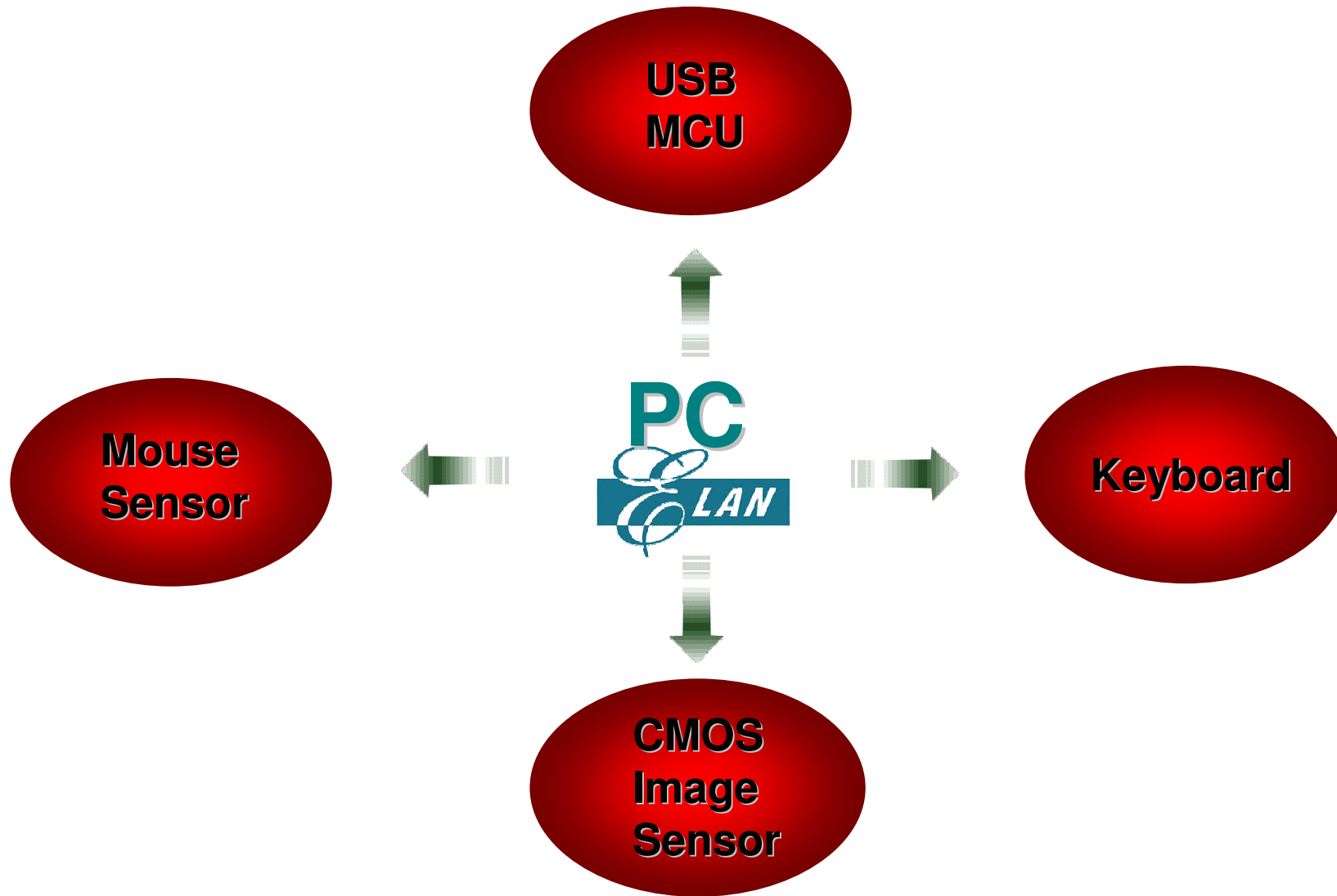
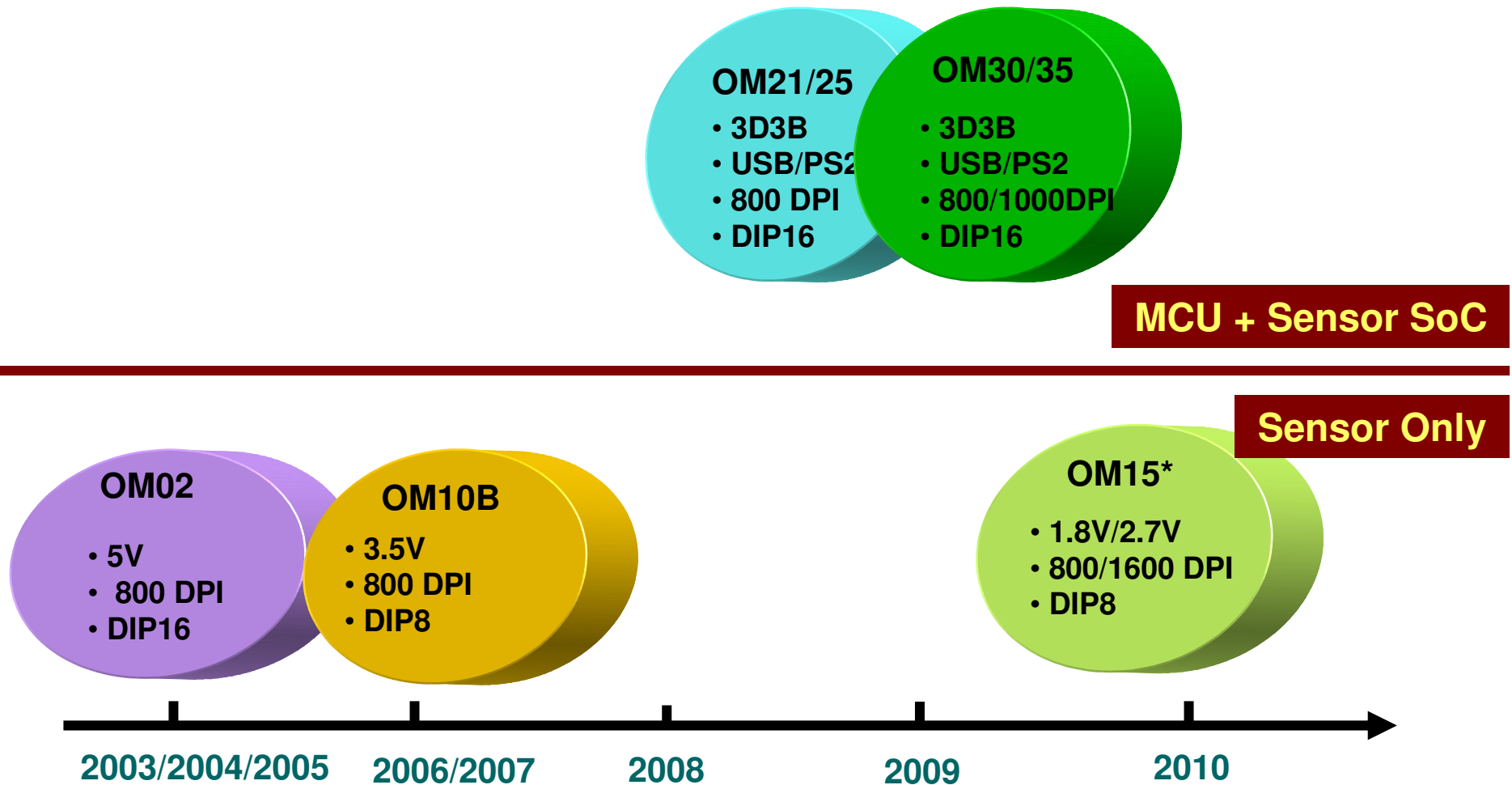


PC Peripheral Product Line





Mouse Optical Sensor Road Map



* Under development

Keyboard Controller Road Map

eKK8011

- USB+PS/2
- HID
- multi-media

eKK8011E

- USB+PS/2
- HID
- Multi-Media

USB Keyboard

EM83053

- PS/2 Keyboard
- scan code 1/2/3
- multi-media

PS/2 Keyboard

~2007

2008

2009

eKK8011E

- **Operation Voltage: 4.4V ~ 5.5V**
- **Comply with USB1.1 Low Speed HID**
- **USB or USB+PS/2 interfaces**
- **Support Suspend and Green Modes**
- **Support 1 Device Address and 3 Endpoints**
- **Operation Frequency: 6MHz or 12MHz (Normal Mode)**
- **6K * 13bit Program ROM**
- **144 Byte SRAM**
- **USB Application FIFOs**
- **Package Types: Chip Form, QFP44 or DIP40**

USB MCU Road Map

EM78680/M680

- Full speed
- ROM 6K
- RAM 271 Bytes
- A/D, PWM, **EE**

EM78P613

- Full Speed
- ROM 6K
- RAM 144 Bytes

Full Speed

EM78611/M611E

- Low Speed
- ROM 6K
- RAM 144 Bytes
- **A/D, EE, PWM**

EM78612/M612

- Low Speed
- ROM 2K
- RAM 80/112
- **A/D, EE, PWM**

EM78611E/P611F

- Low Speed
- ROM 6K
- RAM 144 Bytes

Low Speed

~ 2006

2007

2008

Wireless Solutions



2.4G, Multi-channel, Bi-directional, Wireless Mouse Solutions

1. *Mouse Tx MCU & RF IC:*
 - ♠ *EM78P451S (SOP24/QFP44 Package or Dice)*
 - ♠ *EM198850 (QFN24 Package or Dice)*
2. *Multi-channel w/ID Bi-directional Frequency Hopping*
3. *Support 3D3K~4D5K*
4. *DPI adjustable, 800/1200/1600dpi,*
5. *Support Low Voltage Detection*
6. *Support 4 power saving modes(Normal, Green, Idle, Sleep)*
 - ♠ *Normal Mode: <10mA@3V*
 - ♠ *Green Mode: < 1.1mA@3V*
 - ♠ *Idle Mode: < 0.5mA@3V*
 - ♠ *Sleep Mode: < 85uA@3V*
7. *Tx distance: ~10 meters, Rx sensitivity: -85dBm*
8. *Sensor orientation H/V(X/Y): 0/90/-90/180*
9. *Report rate: up to 125 reports/s*



2.4G, Multi-channel, Bi-directional, Wireless Mouse Dongle

1. *Mouse Rx MCU & RF IC:*
 - ♠ *EM78M612 (SOP16/QFN32 Package or Dice)*
 - ♠ *EM198850 (QFN24 Package or Dice)*
 - ♠ *EM78F8810(QFN40 package, USB+RF SoC)*
2. *Multi-channel w/ID Bi-directional frequency hopping*
3. *USB Port*
4. *Communication Distance: ~10 meters, Rx sensitivity: -85dBm*
5. *Support manual or auto pairing*
6. *Support Windows 98, Windows 2000, Windows XP, VISTA*



2.4G, Multi-channel, Bi-directional, Wireless K+M Solutions

1. Mouse Tx MCU & RF IC:
 - ♠ EM78P451S (QFP44 package or dice)
 - ♠ EM198850 (QFN24 package or dice)
2. Multi-channel w/ID bi-directional frequency hopping
3. 8*18 Key Matrix, support standard Windows keyboard and Multimedia key
4. Support low voltage detection
5. Support 3 power saving mode (Normal, Idle, Sleep)
 - ♠ Normal Mode: <3mA @ 3V
 - ♠ Idle Mode: < 1mA @ 3V
 - ♠ Sleep Mode: < 50uA @ 3V
6. Communication distance: ~10 meters, Rx sensitivity: -85dBm



2.4G, Multi-channel, Bi-directional, Wireless K+M Dongle

1. Mouse Rx MCU & RF IC:
 - ♠ EM78M611 (SOP24 package or dice)
 - ♠ EM198850 (QFN24 package or dice)
2. Multi-channel w/ID bi-directional frequency hopping
3. USB port
4. Support NumLock, CapLock, ScrLock LED detector
5. Communication distance: ~10米
6. Support manual or auto pairing
7. Support Windows 98, Windows 2000, Windows XP, VISTA

