

## KWTouch Gen2 CPU Comparison

Below is a comparison of the hardware specifications between the 2 generations of CPU boards used for the KWTouch product.

### Hardware Comparison

	<u>KWTouch Gen1 CPU (Green PCB)</u>	<u>KWTouch Gen2 CPU (Blue PCB)</u>
Processor	Marvell PXA272 - 520mhz	Freescall IMX6 - 1Ghz Single Core
Memory (RAM/Flash Storage)	32MB DRAM / 32MB Flash	256MB DDR3 / 4GB Flash
Ethernet	10/100	10/100/1000
USB Ports	3 + 1 Dedicated for Touchscreen	6 + 1 Dedicated for Touchscreen
Operating System	Windows CE6	Windows CE7
Video Output	Single LVDS	Dual LVDS
Audio	3.5mm Non-Amplified	3.5mm Non-Amplified
SD Card Slot	4GB Class2 cards and lower	Supports up to 32GB Class10/UHS Cards
Other Information	<ul style="list-style-type: none"> <li>- Dual Displays require "Y" Cable, supports remote display cables up to 25 feet.</li> <li>- Unlikely to receive any new major features going forward, however bug fixes and patches will continue.</li> </ul>	<ul style="list-style-type: none"> <li>- No "Y" Cable required supports remote display cable up to 40 feet.</li> <li>- Sync times reduced by 7-10 times over Gen1 CPU.</li> <li>- More responsive touchscreen and UI</li> <li>- More memory means support for many more users and keys, without any slowdown.</li> <li>- Capable of supporting many new features to come!</li> </ul>

KWTouch Gen1 CPU



KWTouch Gen2 CPU



The KWTouch Gen2 CPU Upgrade will offer the following advantages to customers who have a Gen1 system:

- Support for many new features and functions
- Vastly improved performance with a much more sensitive touchscreen, faster user interface and improved sync times that are 7-10 times faster than before.
  - o Customers utilizing encrypted communications will see less impact on sync times due to the encrypting and decrypting of data being faster
  - o More KWTouch systems can be connected to a KWTServer instance, since the propagation time of new/modified/deleted user data will be greatly reduced
  - o Updates, via SD and USB take much less time!
  - o Long lists of keys or users in selection screens show much more quickly, key selection by number/name is also much faster.
- Newer operating system with the latest security patches
- Gen2 processor is 4 generations newer than the Gen1, and is more efficient and many more times faster than just the speed would indicate.
- Fully supports gigabit networks that are now commonplace.
- Users with dual Touchscreen display systems can have the remote box now placed further away from the system than ever, making it easier to run the cabling. No more difficult “Y” cables – just a single dedicated display cable now.
  - o Gen1 CPU supported up to 25ft of cable length, Gen2 CPU now supports up to 40ft.