

Digital Home-Super Cup
宋志雲, 莊英慎, 謝曜式, 邱馳歲, 陳彥廷
Electronics Engineering
Engineering
bobsung@chu.edu.tw

Abstract

Reading a newspaper while having breakfast or a break is a common way for many people to receive their daily news. In a cloud connected world, everything happens in real time and some people have replaced the humble Newspaper with a tablet or notebook computer to get even more up to date information. The digital home super cup allows an unobtrusive way where the user can have the information they want to see overlaid on a surface of an item they normally interact with on a daily basis.

The digital home super cup is a simple cloud connected device that can display information such as stock quotes or headlines on a flexible display embedded into the product. The super cup's display surface is also a touch screen that can allow the user to customize the display and information they want to see through a simple user interface.

The potential applications include showing weather forecasts, stock quotes, headline news, traffic conditions, or other information of personal interest. Information and news can be collected by the cup and then presented to the user in a short amount of time. The behavior of the user will not need to change if the user does not wish to interact with the super cup.

The overall concept is shown in Figure 1. The outer surface of the cup contains a touch capable flexible display. The cup has wireless capability built into the cup handle and is cloud connected with a local home cloud or internet cloud. Power for the cup is supplied via battery and can be recharged when placed back onto a docking station made into a shape of a coaster.

Keyword : Digital home, wireless LAN, super cup,