網路頻寬自動偵測應用於適應性H.264影音傳輸之研究與探討

Because the characters of H.264 technique form as low ratio data-rate transmitted, it is very suitable to apply the remote transmission. Hopefully, we wish to be able to wath all domestic TV-programs by installing some platform when being far away outdoor even oversea. It always happens to lack enough bandwidth or get worst signal, thus the Auto bit-rate technique improves the above two points; Although it may loss fine dpi, the stable AV quality is still worth overall. That is why we promote the Auto bit-rate technique with more convenience for tuning the optimal configuration in system. For testing and verifying the capacity of the Auto bit-rate tech., we take STR9105 with MAC and USB (200MHz) as MCU; furthermore, a Mobilygen MG1264, well adapts to encode and decode the H.264 format. The process is that AV data is encoded by MG1264 as H.264 format, then form as network packets by MAC streaming. In advance, it is necessary to reconfirm the quality during inputting and outputting packet by normal PC at time. We also realize how to configure the size of the bit-rate; not only for making the H.264 format more smoother, but for realizing the capacity of unhindered and the optimal management in advance.