Operational Description

The SCNC2707 is a network camera based on IEEE 802.11b/g wireless communication technology, it operates from 2412 to 2462MHz.

The IC-AMR926JS is a micro control chip with a external crystal of 22.1184MHz as base clock signal, the IC is responsible all data process and control management.

The U2 on ABNC2070V77251VB board is a CMOS image sensor, it captures the image data and the data is send to U on OTIPCAMCORE1VD board in   ITU656 format.
The U4 on ABIPCAMCORE1VA board is an ARM MCU including a MPEG4   CODEC, it implements all the control and TCP/IP protocol in the same time it will encode the image data come from U4.
While the encoding is complete, the encoding data will be sent out in two ways.
While the RJ45 is pluged, NC207 will send the compress image data by the CAT5 wire.
While the RJ45 is unplugging, NC207 will send the compress image data by the WLAN Module using Wireless way.

The U5 on ABIPCAMCORE1VA board and its periphery is use to Ethernet PHY, the U3 include a MAC, so U3 sent compress image data to Ethernet by U5.

The camera allows live the MPEG-4 and Motion JPEG streams simultaneously. The camera features MPEG4 compression which compresses the video to make transmission faster and more efficient. The MPEG4 and MJPEG image can be transmitted at 30 frames per second. Because of its high-compression ratios, users can monitor high-quality moving images with low delay even at low bandwidths. The image size can be selected according to the network environment and application requirements. Image size can be selected from three modes: 640 x 480, 320 x 240, and 160 x 120.