

Technical Description

IH300 is a USB hub, which can receive outdoor thermo-hygro& thermo sensor (ch1~3) for professional weather station, once received the sensor's information and send to PC immediately. At the same time it will receive 5 city's data from PC by request.

IH300 will transmit 5 city's information to I300 and I600 at every 37 second , and the IH300 no LCD display , So all information will be transmit to PC for display.

Once USB connected or reset , first 30 minutes , it will start to Send city name and city data at every 37 second . 30 ~ 35 minutes , it will receive 433MHz signal .

IH300 has temperature sensor to measure the indoor temperature , and can transmit information to PC for display.

For 433MHz Receive-Module operating , Q400 ,Q401 is a LNA , Transistor Q402, L402 and C407, C408 can generate 433.92MHz Frequency , and the data of receive use OP AMP U400 to demodulate signal , then send Digital Data to MCU , according the data to reading out data .

For 433MHz Transmitter-Module operating , Transmitter is made of Q11 as a OOK oscillator , where XT1 , the 433.92MHz SAW resonator provides the center frequency .C7,C8,C9,C12,C22,C39 perform as the matching network . R19,R20,R21 perform as the Pi-network attenuator.