B574 CIRCUIT DESCRIPTION

APPLICANT: INNCOM International, Inc
FCC ID:

B574 Assembly

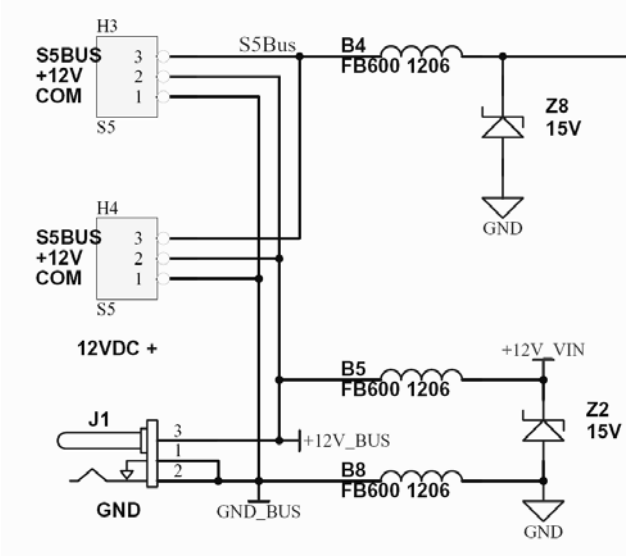
1. B574 includes three modules: logic board 02-9845, power supply 02-4051 and radio module 02-9994.

Logic Board 02-9845

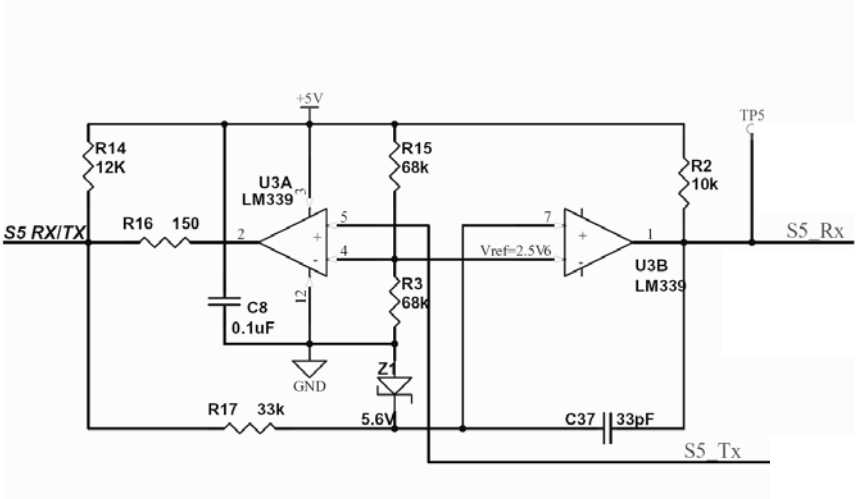
1. Power input header and communication interface Header:

   H3/4: COM, external 12VDC power input, S5 Bus communicates with other devices.

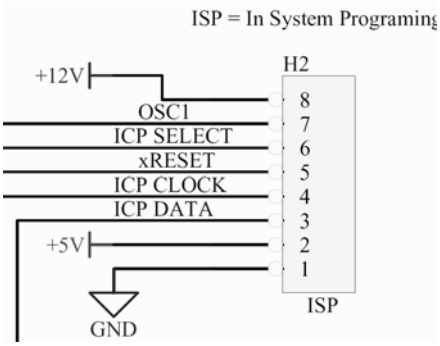
   J1: External 12VDC power supply input DC jack.

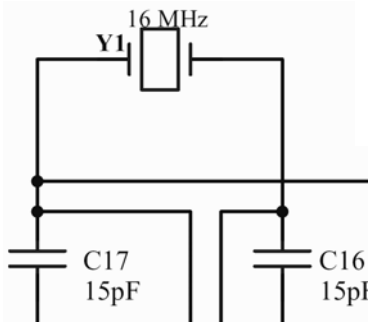


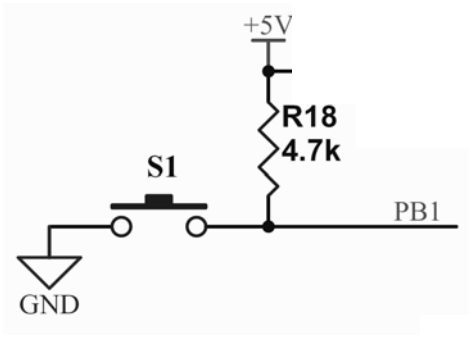
2. S5Bus interface circuit communicates with other devices by bus mode.

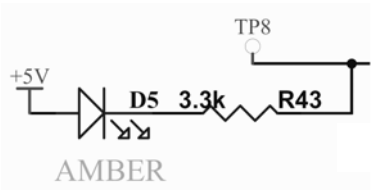


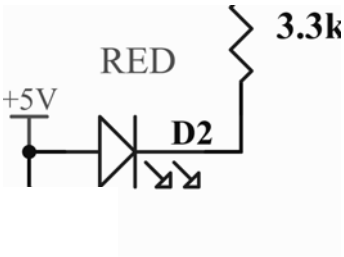
3. ISP header H2 used for MCU flash memory in system programming.
   16MHz crystal and 15pF load capacitors supply working frequency to MCU U4 ST72F324.
   Momentary switch S1, amber red D2 and amber D5 are used for MCU diagnostic testing.
   EEPROM M24C02 is store data by MCU U4 ST72F324.

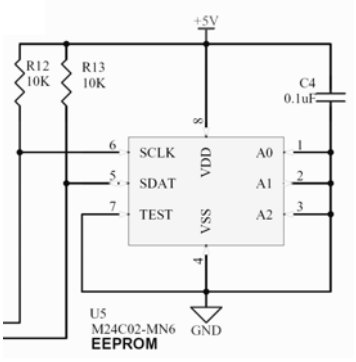


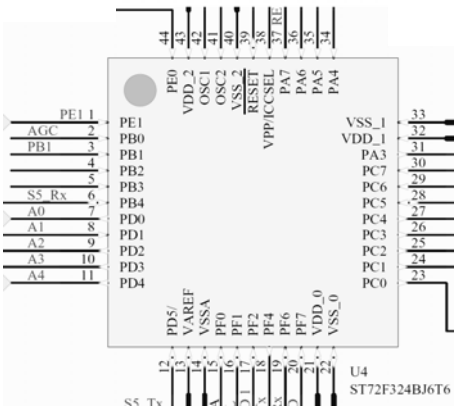




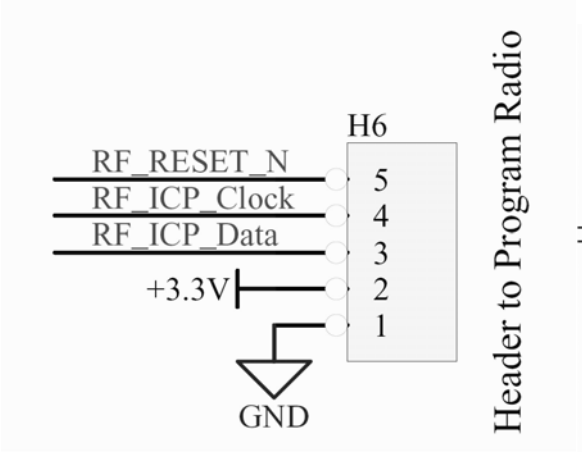


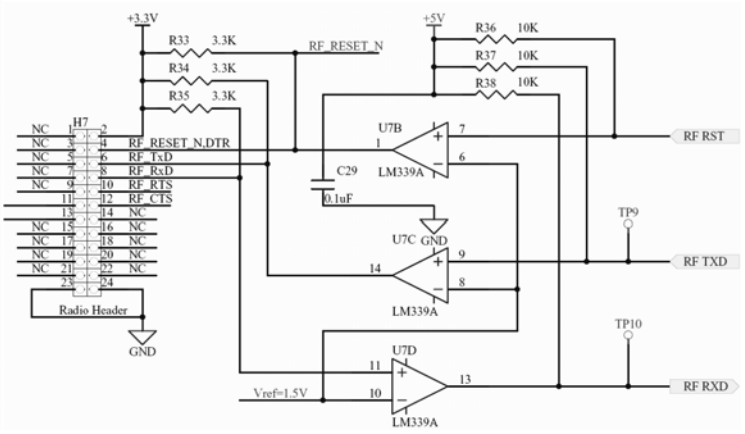




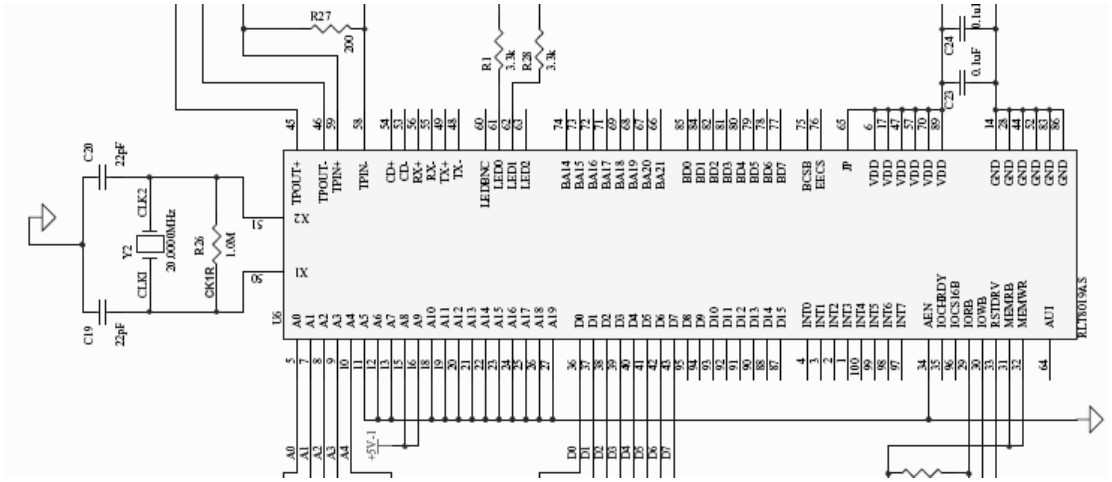


4. ISP header H6 used for radio module 02-9994 in system programming.
   Header H7 used to connect radio module 02-9994 to logic board.
   The interface circuit U7 used for communication between MCU and radio 02-9994.

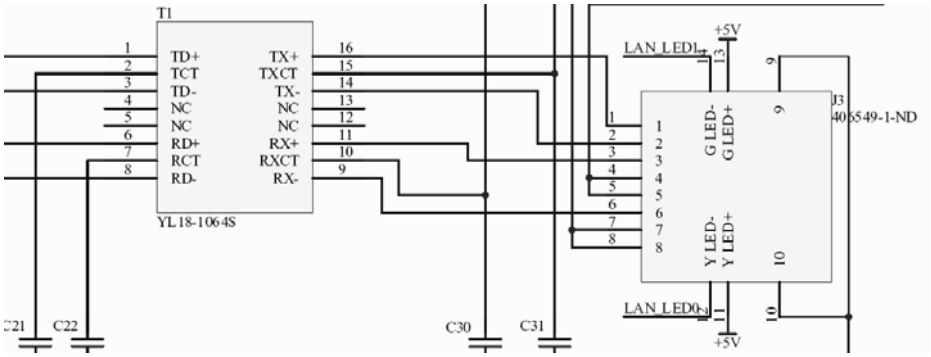




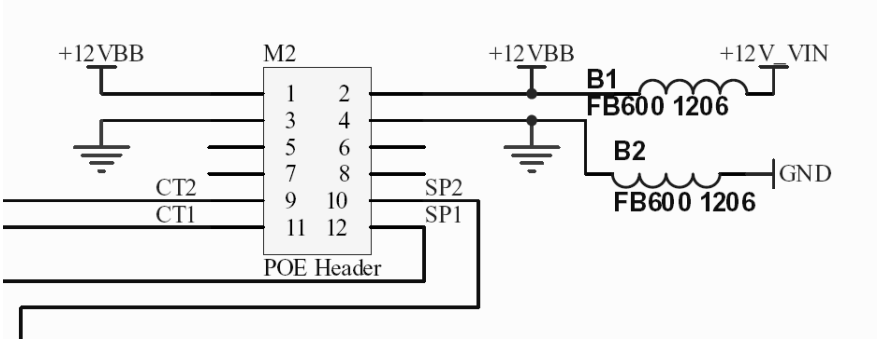
5. U4 RTL8019AS is a highly integrated Ethernet Controller which offers a simple solution to implement a Plug and Play NE2000 compatible adapter with full-duplex and power down features. 20MHz crystal and 22pF load capacitors supply the working frequency to U4 RTL8019AS.



6. Transformer T1 is a 10 base-T single port magnetic.
   J3 is an Ethernet socket.



7. Socket M2 is used to connect POE module which provides 12VDC to logic board.

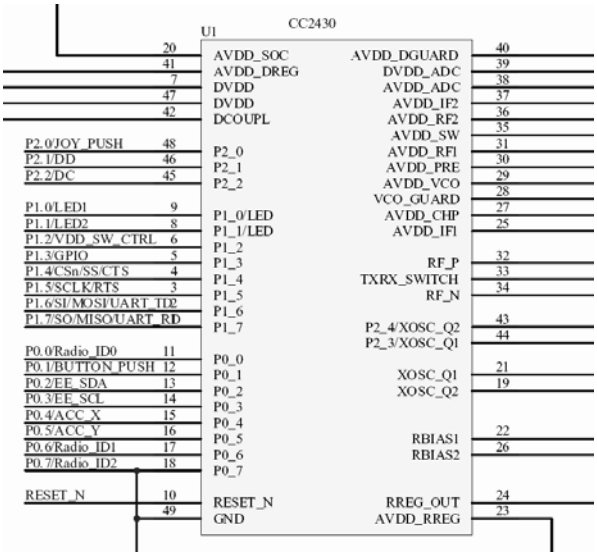


POWER SUPPLY MODULE PSH1-L12/02-4052

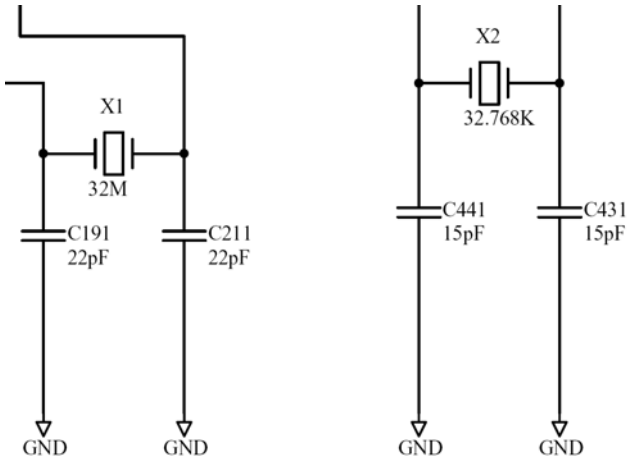
1. The module 02-4051 is used to transform power supply from 12VDC to 5VDC and 3.3VDC.

RADIO MODULE 02-9994

1. MCU CC2430 used to communication with logic board by UART mode.



2. Main frequency: X1, C191 and C211 are used to provide 32MHz frequency to CC2430.
   Optional frequency: X2, C441 and C431 are used to provide 32.768KHz frequency to CC2430.



3. 2.4GHz RF signal is transmitted and received by the microstrip balun.