

Brand: EDIMAX

Model No:BR-6425N

Operational Principle

- 1.CPU,U1,RT3052F have a 32-bit RISC processor integrated, operation frequency is 384MHz. It needs an external 40MHz crystal for reference frequency: this crystal is also used for RF module.RF3052F contain RF MAC, transceiver and Ethernet PHY.
- 2.FLASH,U6,MX29LV320CBTC, 32Mbits Flash, bottom sector, 70ns. It is used to store the normal and test firmware.
3. SDRAM,U7,U8: It is used 8Mx16 bits ,6ns
- 4.Power part : there are several regulators are used on the board. U18,CAT7114 is used to transfer DC12V to DC3V3; U19, CAT7114 are used to transfer DC12V to DC1.5V;U9,U21 AMS1117-ADJ is used to transfer DC3V3 to DC12V. The core of CPU is operate at 1.2V.
- 5.Band-Pass Filters: Q1,Q2, BF776, Freq. Range : 2.4~2.5GHz:IL@BW:2.5dB
- 6.GaAs IC SPDT Switch, U13&U15 uPG2179TB,features low insertion loss and positive voltage operation with very low DC power consumption.
- 7.SiGe PA,U10,U12:SG2597L, It provides a low EVM linear output power.