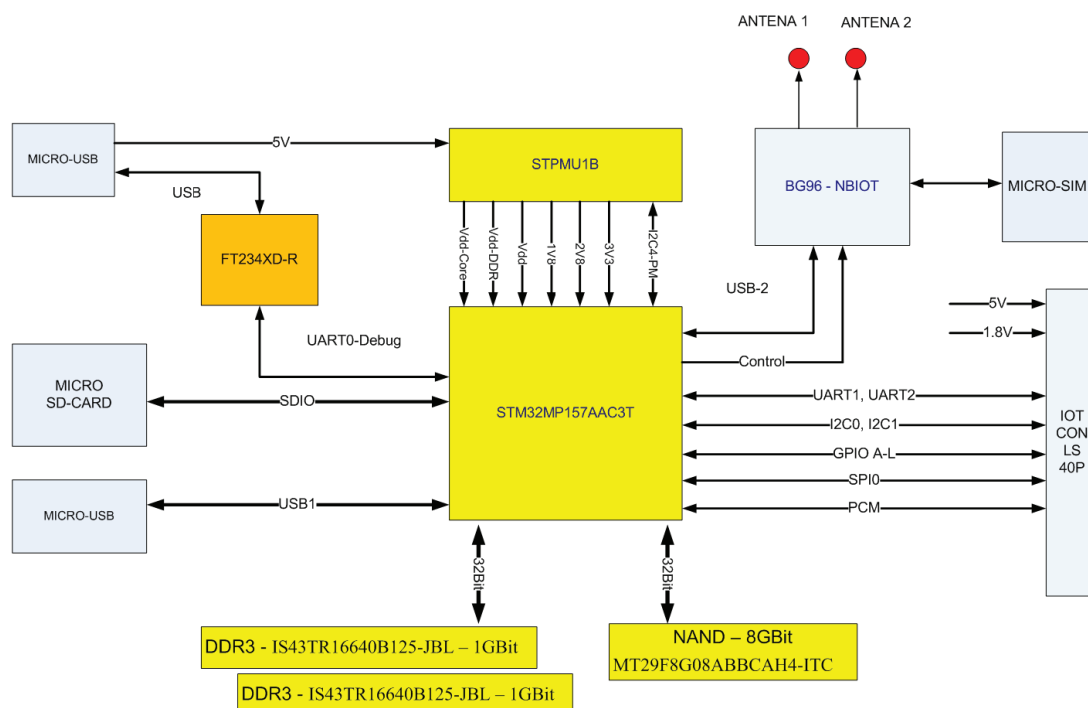# SRT-96B-MEZ-IOT-NBIOT-STM-MP157

Shiratech Company Launches its new 96 IOT Solution, main board based on STM32MP157 + Quectel BG96 M1/Cat NB1/EGPRS Modem

→ The Board is **96Boards IoT Edition Extended Compatible**

Enables full connectivity to 96BOARDS IOT Low speed expansion connector

SRT-96B-MEZ-IOT-NBIOT-STM-MP157

MAIN FEATURES

CORE

- 32-bit dual-core Arm® Cortex®-A7
    - Up to 650 MHz (Up to 4158 CoreMark®)
    - L1 32 Kbyte I / 32 Kbyte D for each core
    - 256 Kbyte unified level 2 cache
    - Arm® NEON™ and Arm® TrustZone®
- 32-bit Arm® Cortex®-M4 with FPU/MPU
    - Up to 200 MHz (Up to 673 CoreMark®)

MEMORIES

- External DDR memory – DDR3 – 64M X 32Bit (2G bit)
- 708 Kbyte of internal SRAM: 256 KB of AXI SYSRAM + 384 KB of AHB SRAM + 64 KB of AHB SRAM in backup domain and 4 KB of SRAM in backup domain
- NAND Flash - SLC NAND Flash Parallel 1.8V 8Gbit 1G x 8Bit 63-Pin VFBGA

SECURITY

- Secure boot, TrustZone® IPs, active tamper

CONNECTIVITY

- On Board Camera DSMI 12Bit interface
- JTAG interface – ST LINK JTAG Interface
- 2 x USB2 interfaces (One for External Connector, One for BG96 Modem)
- 1 x Uart (Via FTDI & Micro USB interface)
- 1 x SD interface

- Full 96 IOT LS connector Interface (1.8V interface)
    - 2 x UART
    - 2 x I2C
    - GPIO Support A-L
    - 1 x SPI
    - 1 x PCM
- BG96 (NBIOT Modem) – Interface
    - 2 x Control lines
    - 1 x USB Interface

BG96 MAIN FEATURES

- Quectel BG96 LTE CAT-M1 Modem
- Modem speed 300Kbps DL / 375Kbps UL
- Built in GPS
- Industrial grade
- Low Power
- Compatible with 96Boards CE and EE boards
- I2C, UART, GPIO for modem operation

POWER

- Input power 5V (From Micro USB Connector)

MECHANICAL

- 96Boards IOT Edition Form Factor

Operating System – LINUX - Linaro Debian