Block diagram

Bluetooth Printer Adapter – Type x42100
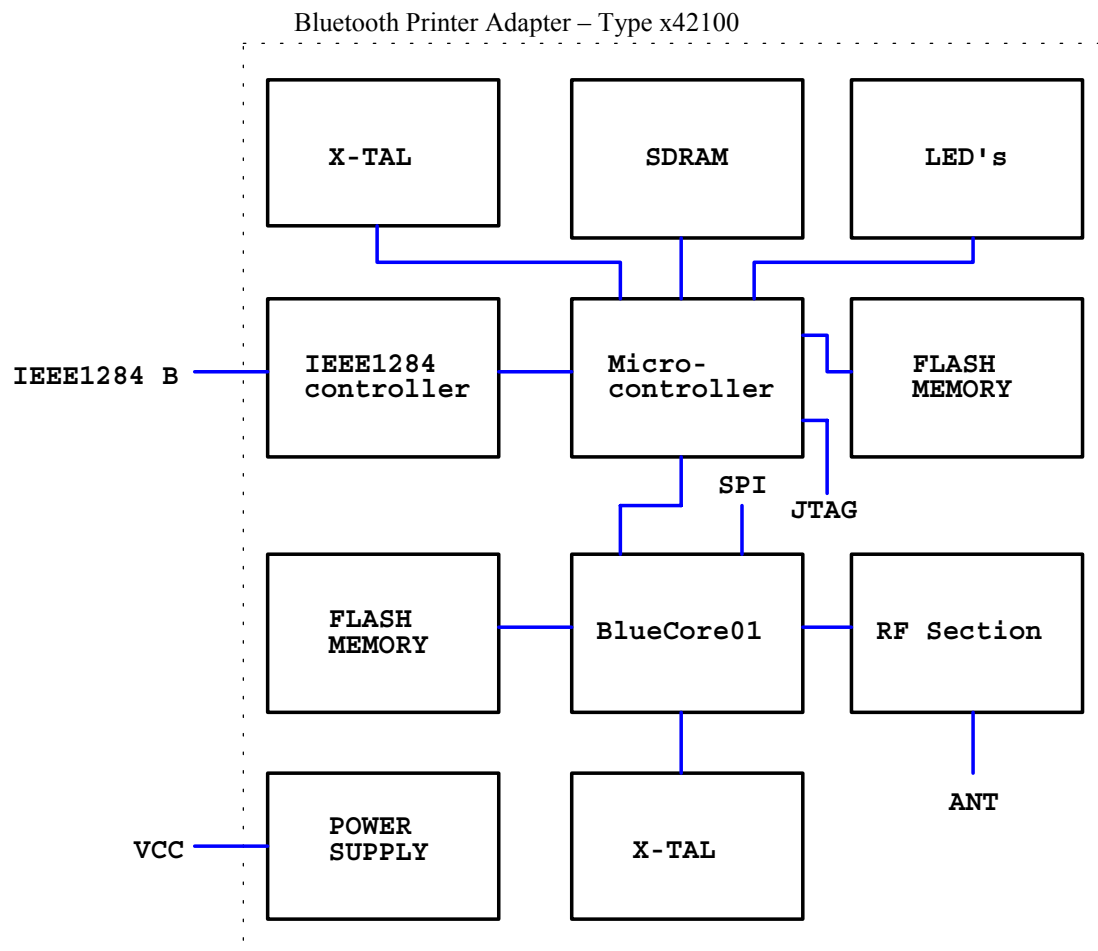

The only external connectors are the IEEE1284B connector for the printer (IEEE1284 B) and the low voltage power supply connector (VCC).
Internally, access for test purpose is possible through a JTAG and SPI connector.
The antenna (ANT) is mounted internally in the Bluetooth Printer Adapter.

X-TAL	There are 2 clock crystals located on the PCB, one for the microcontroller (29,4912MHz) and one for the Bluecore01 (16,0000MHz).
SDRAM	SDRAM memory for microcontroller.
LED's	LED indicators for the user.
IEEE1284 controller	A programmable proprietary IEEE1284 controller is used to control the printer.
Microcontroller	The microcontroller is a ARM7TDMI based Samsung controller, with SDRAM, FLASH, UART, PLL and generel purpose I/O.
FLASH MEMORY	The Flash memory is located as 2 separate chips, one 16x512kbytes for the microcontroller Firmware and one 16x256kbytes for the Radio Firmware.
BlueCore01	BlueCore01 is a single chip, featuring Bluetooth baseband controller, PLL and the complete radio.
RF Section	The RF parts outside the BlueCore01 contains PA, LNA, RF-switch, balun and impedance matching networks.
POWER SUPPLY	The power supply is a linear regulator including common mode filtering and de-coupling for the chips.