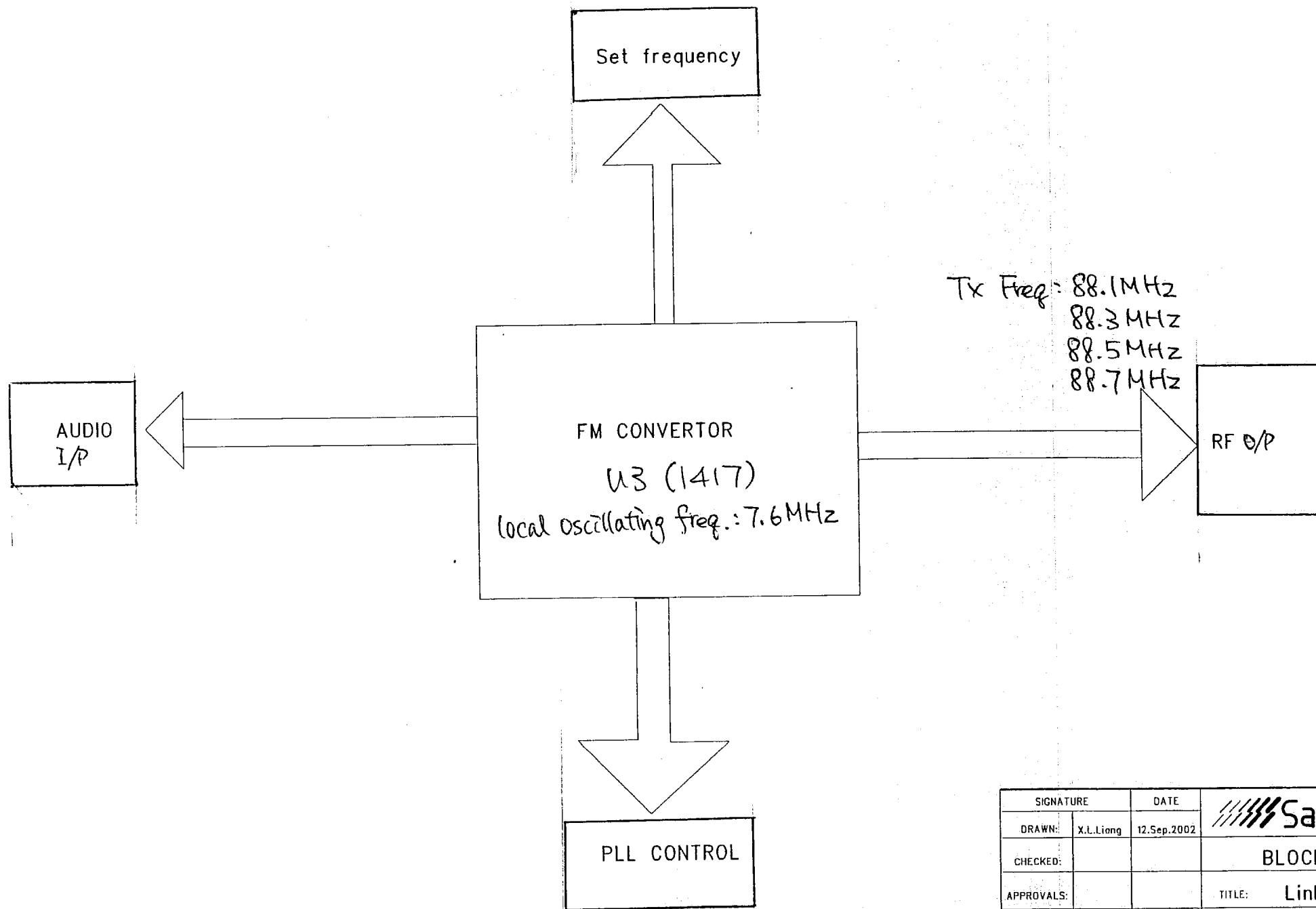
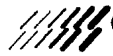


REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



SIGNATURE		DATE	 Saitek Ltd BLOCK DIAGRAM TITLE: Link it DWG. NO. REV.
DRAWN:	X.L.Liong	12.Sep.2002	
CHECKED:			
APPROVALS:			
REMARK:			

Wireless Audio Link IC

BH1417F

The BH1417F is a FM stereo transmitter IC that transmits simple configuration. The IC consists of a stereo modulator for generating stereo composite signals and a FM transmitter for broadcasting a FM signal on the air. The stereo modulator generates a composite signal which consists of the MAIN, SUB, and pilot signal from a 38kHz oscillator. The FM transmitter radiates FM wave on the air by modulating the carrier signal with a composite signal. Frequency is set for North America.

●Applications

Wireless speakers, Personal computer(sound board), Game machine, CD changer, Car TV, Car navigation

●Features

- 1) It is possible to improve the timbre because it has the pre-emphasis circuit, limiter circuit, and the low-pass filter circuit.
- 2) Built-in pilot-tone system FM stereo modulator circuit.
- 3) The transmission frequency is stable because it has a PLL system FM transmitter circuit.
- 4) PLL controls data input in parallel (4bits, 14ch for North America).

●Absolute maximum ratings (Ta = 25°C, In measurement circuit.)

Parameter	Symbol	Limits	Unit	Conditions
Supply voltage	V _{CC}	+7.0	V	Pin8,12
Data input voltage	V _{IN-D}	-0.3~V _{CC} +0.3	V	Pin15,16,17,18
Phase comparator output voltage	V _{OUT-P}	-0.3~V _{CC} +0.3	V	Pin7
Power dissipation	P _d	450*	mW	
Storage temperature	T _{stg}	-55~+125	°C	

* Derating : 4.5mW/°C for operation above Ta=25°C.

●Recommended operating conditions (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Operating supply voltage	V _{CC}	4.0	—	6.0	V	Pin8,12
Operating temperature	T _{opr}	-40	—	+85	°C	
Audio input level	V _{IN-A}	—	—	-10	dBV	Pin1,22
Audio input frequency band	f _{IN-A}	20	—	15k	Hz	Pin1,22
Pre-emphasis time constant set up range	τ _{PRE}	—	—	155	μs	Pin2,21
Transmission frequency(200kHz step)	f _{TX}	87.7 106.7	—	88.9 107.9	MHz	Pin9,11
Control terminal "H" level input voltage	V _{IH}	0.8V _{CC}	—	V _{CC}	V	Pin15,16,17,18
Control terminal "L" level input voltage	V _{IL}	GND	—	0.2V _{CC}	V	Pin15,16,17,18

●Block diagram

