14.7456MHz

FLASH SRAM E2PROM A/D RTC

uP

FPGA

RADIO

MODEM

16.00312MHz

RS-485 RS-232

32.768 KHz

P/S (ALL LINEAR)

CONTROLLER
BLOCK
DIAGRAM

DATA

CLK

LE

DIGITAL PLL

14.4 MHz VC-TCXO

VCO

TX- DATA

VCO SET @ 915 MHz(TX) 870 MHz(RX)

PWR AMP

45 MHZ (1st IF)

MIXER

T/R SWITCH

BIT SLICER

LNA

RCVR

44.545 MHz

455 KHz (2nd IF)
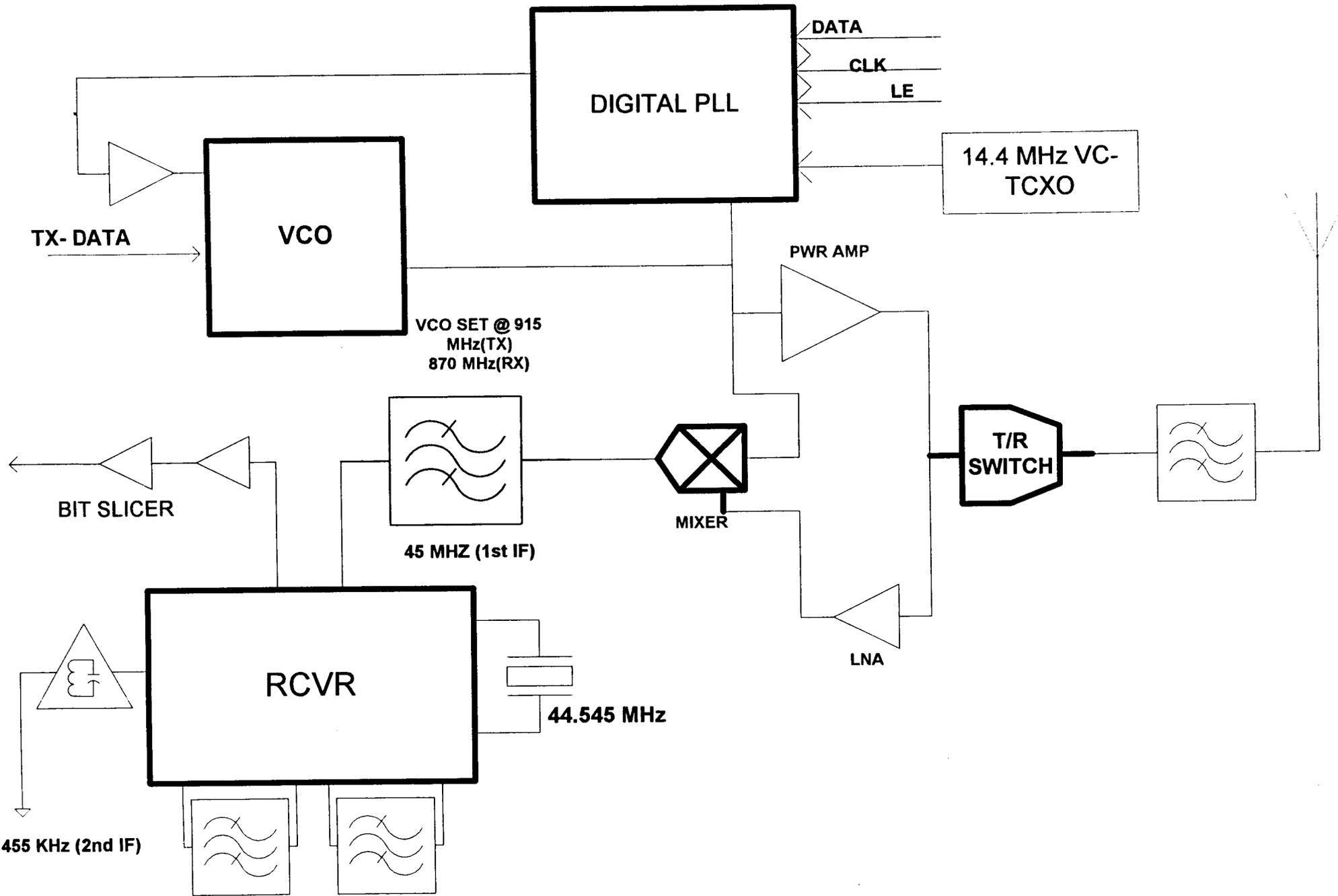
TRANSCEIVER BLK DIAGRAM