### KT-18 CHARACTORISTICS

### 1 RF MODULE

## INTERNAL CIRCUIT OPERATES ON 3V

_													_	
CONTENTS	VDD INPUT	VDD INPUT	THROTTLE INC TRIM INPUT	THROTTLE DEC TRIM INPUT	BATTERY VOLTAGE CHECK	STEERING TRIM VOLTAGE INPUT	BUZZER OUTPUT	LED OUTPUT	THROTTLE VOLTAGE INPUT	STEERING VOLTAGE INPUT	NOT IN USE, MUST PULL UP	NOT IN USE	RESET INPUT(INTERNAL PULL UP	GND
0/1		-	-	_	-	_	0	0		_	_	0	_	_
NAME	۸ε	38//26	ONI H.L	TH DEC	LOW BAT	ST TRIM	ZNB	OET	HL	ST	NIS	SOUT	RES	GND
PIN No.	-	2	3	4	5	9	7	8	9	10	11	12	13	14

### GENERAL CHARACTRISTICS

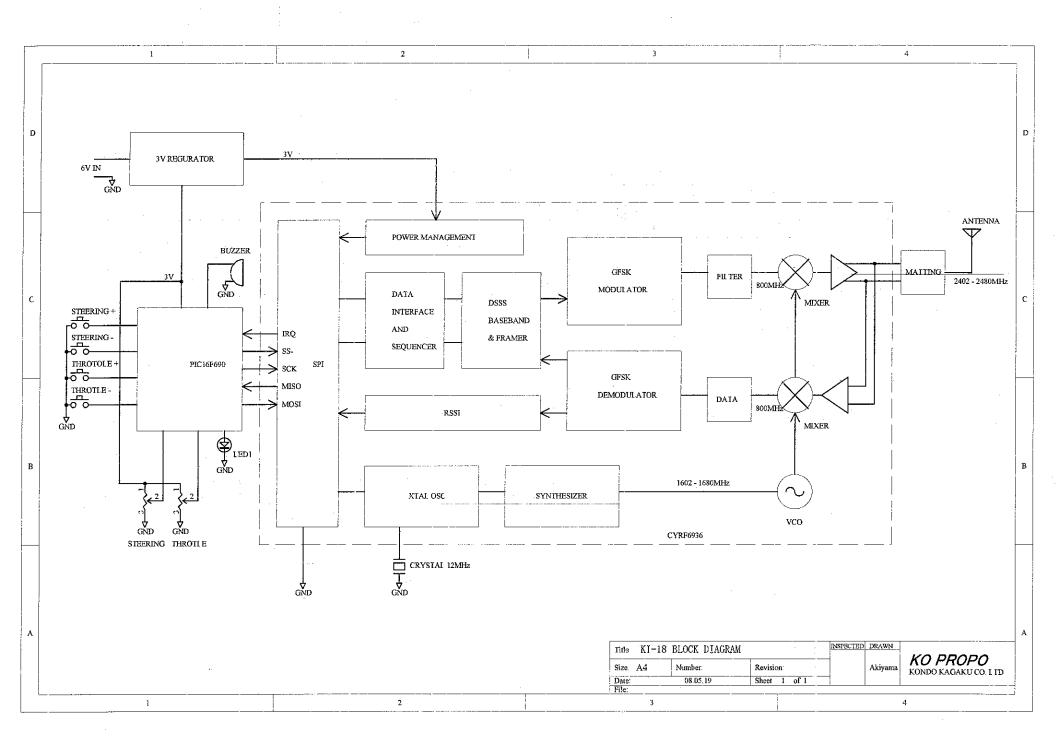
ITEM	RATING	ш
COMMUNICATION	SIMPLEX	
METHOD		
FREQUENCY METHOD FSK	FSK	
OSCLLATION	PLL CONTROLLED VCO	
METHOD		
FREQUENCY RANGE   2404 - 2480MHz		TRANSMISSION
CHANNEL STEP	2MHz	
NUMBER OF CHANNEL 39CHANNELS	39CHANNELS	
TRANSMISSION SPEED 1000Kbps	1000Kbps	
ANTENNA INPEDANCE 50 OHMS	50 OHWS	
1'ST IF	ZHW008	
OPERATING		
TEMPRATURE		
CURRENT	80mA MAX	
CONSUMPTION		
SIZE	25 x 17.5 x 5 mm	
WEIGHT	ABOUT 5g	

# CHARACTRISTICS OF SENDING COMPONENT

	RATING	
1.4 IME I HOD	THESIZER	
TX OUTPUT POWER 1mW +/-0.5mW	nW +/-0.5mW	
CHIP OF DIFFUSION 32CHIPS	CHIPS	
STABILITY OF +/-	+/-20ppm	
FREQUENCY		
SPURIOUS STRENGTH 20uW	JuW 2.387MHz =< f < 2400MHz	
	2483.5MHz < f =< 2496.5MHz	
2.5	2.5uW 2487MHz > f	
	2496.5MHz < f	
TRANSMITTER   WIT	WITHIN 2mS	
RISE TIME		

### 2 MAIN BOARD

ITEM	RATING	NOTE
BATTERY VOLTAGE	Λ9	
REGURATOR VOLTAGE3V	3V	
CURRENT	100mA MAX.	
CONSUMPTION		





# WirelessUSB™ LP 2.4GHz Radio SoC

### Features <u>\_</u>

4 GHz Direct Sequence Spread Spectrum (DSSS) radio

· Wireless Keyboards and Mice

Wireless Camepads

Remote Controls

Toys

2.0 Applications

VOIP and Wireless Headsets

- Operates in the unicensed worldwide Industrial, Scientific and Medical (ISM) band (2.400 GHz-2.483 GHz)
  - 21mA operating current (Transmit @ -5 dBm)
- Transmit power up to 14 dom
- . Receive sensitivity up to -97 dBm
  - Seep Current <1 pt
- Consisting ange 1944
- DSSS data rates up to 250 kbps, GFSK data rate of 1 Mbps
  - . Low external component court
- Auto Transaction Sequences (ATS) no MCU intervention

· Personal Health & Entertainment

Automatic Meter Readers

· Consumer Electronics

· White Goods

· Home Automation

Applications Support

0

- Framing, Length, CRC16, and Auto ACK
- Power Management Unit (PMU) for MCU / Sensor · Fast Startup and Fast Channel Changes
  - Separate 16-byte Transmit and Receive FIFOs
    - AutoRate M dynamic dala rate reception
- Receive Signal Strength Indication (RSSI)

  - 4-MHz SPI microcontroller interface Battery Voltage Monitoring Circuitry
- Senal Perpheral Interface (SPI) control while in sleep mode
  - Supports corn-cell operated apolications
    - . Operating voltage from 1,8V to 3.6V
- Space saving 40-pin OFN 6x6 mm package Coperating temperature from 0 to 70°C

www.cypress.com for development tools, reference designs, and application notes.

The CYRF6936 WirelessUSB™ LP radio is a second generation member of Cypress's WirelessUSB Radio System-On-Chip (SoC) family. The CYRF6936 is interoperable with the first generation CYWUSB69xx devices. The CYRF6936 IC including increased operating voltage range, reduced supply current in all operating modes, higher data rate options, and reduced crystal start-up, synthesizer settling and link turn-around times. adds a range of enhanced features, Functional Description 0

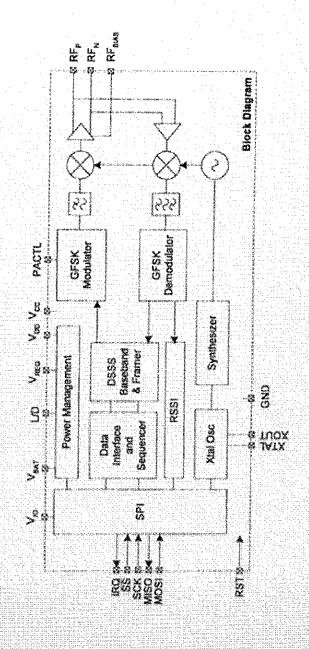


Figure 4-1. CYRF6935 Simplified Block Diagram

\*



Changes or modifications to the transmitter not expressly approved by the Kyosho could void the user's authority to operate the equipment.

the instructions, may cause harmful interference to radio energy and, if not installed and used in accordance with interference in a residential installation. This equipment This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are established communications. However, there is no guarantee that interference will not occur in a particular installation. to provide reasonable protection against harmful generates, uses and can radiate radio frequency

\*Herby, KYOSHO CORPORATION, declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The Declaration of Cantormity (Doc) can be downloaded at following URL. www.kyosho.com/eng/support/doc/index.html

\*Hiermit erklärt die KYOSHO Corporation, dass dieses Produkt in Übereinstimmung mit der Richtlinie 1995/5/EC ist und ihr in allen relevanten Punkten entspricht. Die Kontormitätserklärung kann unter dem folgeden Link abgeruten werden: www.kvosho.com/eng/support/doc/index.html

\*Per la prèsente, KYOSHO CORPORATION, déclare que cet équipement est conforme aux exigences essentielles et aux autres dispositions de la directive 1995/5/CE qui lui sont applicables. La déclaration de conformité peut être confultée à l'adresse suivante : www.kyosho.fr/rtte-doc.htm

\*Por medio de la presente KYOSHO declara que este producto cumple con los requisitos esenciales v cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

La Declaracion de Comformidad (DoC) puede descargarse en la siguiente direccion de Internet: www.kyosho.com/eng/support/doc/index.html

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