Convoy Technologies

Wireless video and audio transmitter

MODEL :

CT-W1000KIT, CT-W1000KIT-MCN, CT-W1000TX,

CT-W1000RX, 1490159, 1490161

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INTRODUCTION

Convoy Wireless Module is a series of low cost and high performance digital Wireless transceiver module for wireless rearview, wireless camera applications which integrates MPEG4 codec , FHSS base band , RF transceiver ,AD&Flash, CVBS PAL/NTSC System input.

Power Supply By Car
12V

USAGE INSTRUCTION

1. Ensure to follow above connection diagram to install the modules properly into your vehicle.

2. LED light status (**ON** = POWER ON & CONNECTED, **FLASHING**= PAIRING MODE, **OFF** = POWER OFF or DISCONNECTED)

3. You may choose to perform a “Pairing” to re-establish connection between modules by procedure below:

    - Holding the center pairing button on Receiver Module until LED light constantly flashing.

    - The connected Monitor Display will display “PAIRING” with 50 second count down.

    - Holding the center pairing button on Transmitter Module until LED light constantly flashing.

    - The connected Monitor Display will display “SAVED DATA” for successful Pairing and then camera image will be displayed.

SPECIFICATION

DC Characteristics	
POWER SUPPLY	DC 12V
TX Current Consumption	TYPE:330Ma, Max.400Ma
Environmental Specification	
Operating Temperature	-10~+60 ºC
Storing Temperature	-30~+85 ºC
Operating humidity	85%RH
BASEBAND SPEC.	
POWER ON	2SEC Max. RE
	TBD Max. SE/AV
Latency	100ms Max. RE
	TBD Max. SE/AV
Resolution	VGA/640X480 RE
	PAL:720X576/NTSC:720X480 SE/AV
Frame Rate	30f/s
	NTSC:30f/s/PAL: 25f/s SE/AV
Video Codec	MPEG4
TX Video in System	PAL/NTSC Auto detection
RX Video out System	PAL/NTSC Auto detection
Audio Codec	MP3 1Channel
Voice Sample Rate	8KHz M RE/SE
	48KHz AV
Voice Frequency Band	340Hz~3.4KHz RE/SE
	20Hz~20KHz AV
ID / BIT	Pairing 22(4KK)
SYSTEM Architecture	ARM9(32Bit) SOC
Idle Screen	Blue Screen
Video Characteristics	
Video Output impedance	75Ω, Typ.
Video Output Level	1Vp-p, Typ.
Video Polarity	NEGATIVE
Video Frequency Response	±5 dB, Max. 50Hz ~ 6MHz
Differential Gain	±5 %, Max
Differential Phase	±5 Deg., Max
S/N	50dB, Min

Audio	
Audio Output impedance	200KΩ, Typ.
Audio Output Level	5mv~0.5Vp-p, Typ.
S/N(340Hz ~ 3.4kHz)	63dB, Min
THD:(340Hz~ 3.4kHz,0.5p-p)	0.1 %, Max
Outline	
Size	147 x 87 mm
Weight	200g/box

FCC Certification Requirements

Caution: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the 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 designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.