

Specification
For
ACS-5820

**5.8GHz Cable
Sender(NTSC)**

Document Number : Ps06001
Title : 5.8GHz Cable Sender(NTSC)

Page : 1 of 8
Revision : 0A
Date : 2006-07-19

RF-Link/Araneus USA, Inc.
URL: <http://www.rflinkusa.com>

1. Introduction

This document describes the specification and features of CABLE SENDER 5.8GHz Transmitter with TV Tuner which use FM modulation technology for wireless A/V transmission application.

2. Features

2.1	Avoid interference from crowded 2.4GHz ISM applications such as Video Sender, 802.11b Wireless LAN, Bluetooth, Cordless Phone, Microwave Oven, etc.
2.2	Operating Frequency of 5745 ~ 5805MHz (4 Channels)
2.3	Directional Antenna minimizes multi-path and interference
2.4	Up to 300 feet range, clear line of sight
2.5	Support NTSC TV signal
2.6	High S/N Video output and Stereo Audio output
2.7	NTSC TV TUNER FOR USA CATV TYPE
2.8	IR REMOTE CONTROLLER

3 Specification

3.1 Transmitter Module – Mini VT5P1

3.1.1 General specification

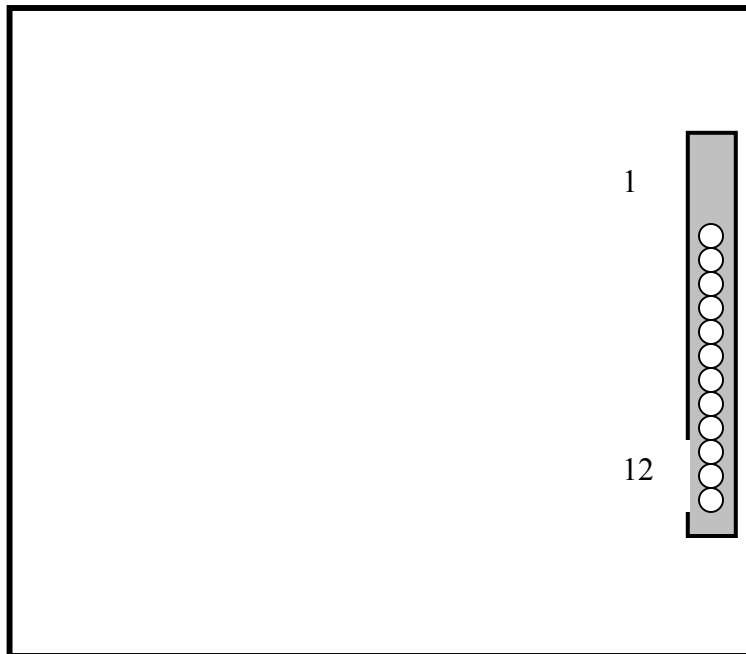
Input Voltage (module)	DC 5V \pm 0.15V
Current Consumption	< 120 mA
Antenna Type	Patch Antenna
Operation temperature & humidity	0°C ~ +50°C less than 85%
Storage temperature & humidity	-20°C ~ +70°C less than 90%

3.1.1 Electrical specification

RF	
Output power @ connector	+13dBm
Modulation Type	FM
RF Deviation (FM)	6.4MHz <small>peak to peak</small>
Channel Frequency	CH1 5745MHz
	CH2 5765MHz
	CH3 5785MHz

	Channel Selection	CH4 5805MHz
	Frequency Stability	Tact Switch $\pm 250\text{KHz}$
	Output Flatness	0 ~ +3dB
Video	Input Level	1V _{peak to peak}
	Impedance	75 ohms
	Pre-Emphasis	NTSC
	D.G.	< $\pm 8\%$
	D.P.	< $\pm 8\%$
Audio	Input Level	1.4V _{peak to peak}
	Impedance	600 ohms
	Frequency Response	30Hz ~ 12KHz
	Audio Carrier Frequency (L)	6.0MHz $\pm 25\text{KHz}$
	Audio Carrier Frequency (R)	6.5MHz $\pm 25\text{KHz}$
	Audio Distortion	3% max. THD
	AM Rejection	40dB min.

3.1.2 Tx Module PIN assignment



- 1:CH-SELE
- 2:SCL
- 3:SDA
- 4:LED1
- 5:LED2
- 6:LED3
- 7:LED4
- 8:VIDEO
- 9:AUDIO L
- 10:AUDIO R
- 11:GND
- 12:VCC(+5V)

3.2 Tx Main Board (baseband)

Input Voltage	DC 9V
Current Consumption	< 350mA
Video Input Level	1V _{p-p} (Yellow)
Video Impedance	75 ohms
Audio Input Level	1.4 V _{p-p}
Audio Impedance	R (Red) 600 ohms L (White) 600 ohms
CATV impedance	75 ohms
TV Channel type	USA(CATV)
TV RECEIVER SYSTEM	NTSC

3.3 IR Board (30KHz ~ 60KHz) with UHF 418 MHz Receiver

4. Module with Main Board Illustration

Tx Module with Main Board

