

## Product Manual

- ◆ Model: GCR-K956
- ◆ Type: DVB-C/MPEG-2/AVS

### **Main Feature:**

- ✓ Fully in line with DVB-C digital TV reception standards
- ✓ Fully comply with MPEG-2 and AVS standards
- ✓ Safety in line with GB / T8898 second-class equipment in the relevant requirements
- ✓ The main chip using Ali's M3202C chip, which chip has a high degree of integration of outstanding processing power and powerful peripherals and so on
- ✓ This chip uses a single CPU, clocked at up to 270MHz
- ✓ Support all kinds of mainstream CAS condition receiving system
- ✓ Embedded Loader supports remote upgrade, the program can be immediately updated to the latest version, OTA upgrade 100% success rate
- ✓ NIT table automatic search function and manual search function
- ✓ powerful program management capabilities to support parental lock control
- ✓ Support standard EPG function
- ✓ PAL / NTSC auto / forced conversion
- ✓ Can choose Chinese menu, friendly user interface Diverse menu operations, menu prompt time, transparency, brightness, language
- ✓ 2D graphics acceleration engine, you can design a beautiful animation interface effects
- ✓ Can directly view the program name, program PID value and other parameters
- ✓ Power-down program memory function
- ✓ Composite video signal + left and right channel output, support for stereo
- ✓ Support program automatically updated
- ✓ Have integrated a number of CA, Yongxin Tongfang, with the secret and so on

Ultra-low power consumption, long-term use of the chip temperature does not change very high

### **Front Panel:**



Plastic shell length \* width \* height: 180\*120\*33.2

### **Rear Panel:**



## Technical specifications

### ◆ Chip Description :

CPU work frequency: 270MHz  
Flash memory: 4MByte  
SDRAM: 32Mbyte

### ◆ Power:

Input power: DC5V, 1.5A  
Maximum power consumption: 9W  
Standby power consumption:  $\leq 1W$

### ◆ Interface description :

RF signal input: x1  
RF signal output: None  
Audio and video output: composite video + left and right channel output  
Remote control receiver: Infrared remote control expansion  
Data interface: RS232, for connection with peripheral devices, but also through the serial port for system software upgrades and set-top box troubleshooting  
Power Interface: Adapter + 5V input  
Smart card interface: IS07816

### ◆ tuner :

Tuner: DVB-C (onboard program)  
Receiver operating frequency range: 48 ~ 862MHz  
Input signal level: 36dBuV ~ 100dBuV  
Input impedance: 75 ohms  
Frequency capture range:  $\pm 600KHz$   
Input reflection loss:  $> 8dB$   
LO leakage:  $< 43dBuV$   
Support symbol rate range: 3.6-6.952MS / s  
Program Time Base (PCR) jitter adaptation: + 500ns

### ◆ 解调:

Demodulation mode: DVB-C  
Demodulation method: 16QAM / 32QAM / 64QAM / 128QAM / 256QAM  
IF bandwidth: 8MHz

**◆ Video decoding :**

Decoding method: (ISO / IEC13818-2) MPEG-2 MP @ ML

Video output format: PAL / NTSC automatic;

Single video compression bit rate: 2-15Mbps (continuously adjustable)

Image resolution: 720x576 (maximum; with the end of the signal adjustable)

**◆ Audio decoding :**

Audio decoding: MPEG-1 (layer1,2)

Audio work: mono, two-channel, stereo

Audio sampling frequency: 32, 44.1, 48 KHz

**◆ Channel coding:**

Coding method: RS code (204, 188, T=8)

**◆ PAL-D Video output:**

Video output amplitude: 700 + 30mvp-p;

Video synchronization amplitude: 300 +20 mvp-p;

**◆ Audio output :**

Audio output level: 0 +6 dBu;

Audio left and right channel level difference: <0.5dB (20Hz-20KH z);

Volume adjustment: 32 orders;

**◆ Stability:** Mean time between failures (MTBF) of more than 15,000 hours

**◆ Reliability:** using SJ / T11219-20005.10 test program

**◆ Electromagnetic radiation interference value:** <1x10 W