

GOSPELL	Gospell Digital Technology Co., Ltd.	Model: GCR-K811
		Version: V1.1

Product Manual

- ◆ Model: gcr-k811
- ◆ Category: dmb-c/mpeg-2/h.264/mpeg-4 Gospell Digital Technology Co., Ltd.

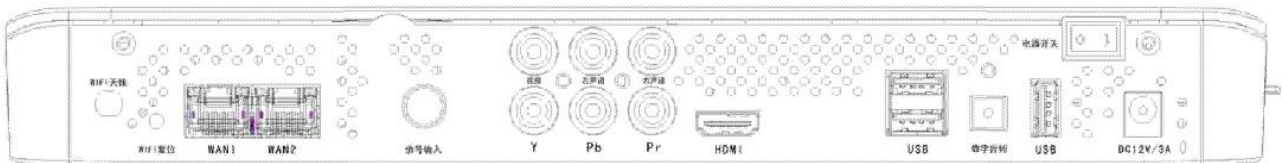
Main functions and features:

Front panel:



long * Width * Height: 300*210*40

Back panel:



Technical Specifications

◆ Chip Description:

CPU working frequency: 1GHz
Flash memory port: 2G/4GByte
SDRAM: 1G byte DDR3

◆ Power supply:

Input power: DC12V/3A
Maximum power consumption: 36W

◆ Interface Description:

RCA	1 Group	SPDIF	1 Group
WAN	1 Road	LAN	1 Road
YpbPr	1 Group	USB2.0	4
HDMI	1 Group	RF	1 Road
Wi-fi antenna and reset key	1 Group	SD Card	1

◆ Tuner:

Tuner: DMB-C
receiver Operating frequency range: 115-858MHz
input signal level: 36dBuV~100dBuV
Input Impedance: 75Ω
Frequency capture Range: ±600KHz
Input reflection loss: >8dB
Local oscillator leakage: <43dBuV
Support Symbol Rate Range: 3.6-6.952MS/s
Program Time Base (PCR) jitter resilience: +500ns

◆ Demodulation:

Demodulation mode: DMB-C
Demodulation Method: 64QAM;
IF Bandwidth: 6-8MHz

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◆ **Video decoding:**

Decoding method: H.264, MPEG-2, MPEG-2, MPEG-4, DIVX/VXID format
 Video output format: PAL/NTSC automatic;
 Single channel video compression code rate: 2-15Mbps (continuously adjustable)
 Image resolution: 1920x1080 (maximum; With the originating signal adjustable)

◆ **Audio decoding:**

Audio decoding mode: H.264, MPEG-2, MPEG-2, MPEG-4, DIVX/VXID format
 Audio working mode: Mono, dual channel, stereo
 Audio sampling frequency: 32, 44.1, 48KHz

◆ **Channel encoding:**

Encoding mode: RS Code (204, 188, T=8)

◆ **PAL-D Video output:**

Video Output Range: 700 ± 30 mvp-p;
 Video Sync Range: 300 ± 20 mvp-p;
 Video Frequency characteristics: ± 0.8 dB (0.5MHz~4.8MHz)
 ± 1 dB (>4.8MHz~5.0MHz)
 $+0.5 \sim -4$ db (5.5MHz)

Video signal-to-noise ratio: ≥ 56 dB
 K coefficient: ≤ 3
 Chroma / Brightness gain difference: $\pm 5\%$
 Chroma / brightness delay: ≤ 30 ns
 Brightness Nonlinear distortion: $\leq 5\%$
 Differential gain distortion: $\pm 8\%$
 Differential phase distortion: ± 5 degrees
 Line Sync front jitter: ≤ 10 dB

◆ **Audio output:**

Audio Frequency Response: ± 2.0 dB (20Hz-60Hz)
 ± 1 dB (>60Hz-18KHz)
 Audio signal-to-noise ratio: ≥ 70 dB
 Audio Total harmonic distortion: $\leq 1\%$
 Audio left and right channel level difference: < 0.5 dB (60Hz-18KHz)
 Audio left and right channel phase difference: ≤ 5 度 (60Hz-18KHz)
 Left and right channel crosstalk suppression ratio: ≥ 60 dB
 Output level: ≥ 4 dBu

◆ **Stability:** average no failure working time (MTBF) is greater than 15000 hours

◆ **Reliability:** use sj/t11219-20005.10 pilot Scheme

◆ **Electromagnetic radiation interference value:** $< 1 \times 10$ W