Overview

VIM554 Audio/Video Input Module is implemented in CPCI-S.0 3U standard with support of rear I/O modules. The module is designed for reception of standard definition analog video signals (SDTV) and voice audio signals, their conversion to digital form and their entry into PC system memory.

Form-factor
PICMG CPCI-S.0 R1.0 CompactPCI® Serial Specification 3U.

System bus
PCI Express x4.

LED-indication
LED-indication of module’s operation modes.

Software monitor
Overheating protection (module disconnection).

Video path
For VIM554-01 version: 4x channels;
For VIM554-02 version: 8x channels;
Video signal standard: PAL (B, D, G, H, I, M, N), SECAM, NTSC;
Video signal type: composite (CVBS);
Connector type and characteristic impedance: MCX (slot), 75 Ohm;
Video input type: AC-coupled;
Video input accepted level: 0.5 V→2.0 V (peak-to-peak amplitude);
Anti-aliasing filters: yes;
Input speed per each channel: 25/30 frames per second depending on the video signal standard;
Output frame format: up to D1;
Video decoder: TW6869.

Audio path
For VIM554-01 version: 4x channels (mono);
For VIM554-02 version: 8x channels (mono);
Type of audio sources: active microphones, amplifiers, sound cards;
Power supply of active microphones: +12.0 V/45.0 mA;
Bandwidth: 12 KHz (using the level –3 dB);
Input stage type: differential;
Input resistance – No less than 47 KOhm (f=1 KHz);
Input signal level: up to 2.0 V (root-mean-square value);
Sampling rate: 8/16/32/44.1/48 KHz;
Retrieval capacity: 8/16 bit;
Input stage overload protection: yes;
Audio decoder: TW6869.

Power supply
Supplying voltage: +12.0 V;
Consumed current: no more than 0.8 A.

Resistance to mechanical impact
Vibration, acceleration amplitude – no more than 5g;
Single shocks, peak acceleration – no more than 100 g;
Multiple shocks, peak acceleration – no more than 50 g.

MTBF
No less than: 100 000 hours.

Weight
VIM554-01-R1 — no more than 320 g;
VIM554-02-R1 — no more than 380 g.

Dimensions
No more than 130.5 mm x 213.0 mm x 20.32 mm (WxDxH).

Operating temperature range
Industrial version: from –40°C to +85°C.

Humidity
Up to 80%, non-condensing.

Resistance to cyclic damp heat in case of lacquer coating
At the ambient temperature of (+55±2)°C and relative humidity of (93±3)%.

OS compatibility
Windows 7 (Embedded), 32/64 bit; Linux 3.2.0.
VIM554 Audio / Video Input Module

Ordering Information

VIM554 Configuration

VIM554-01/VIM554-02

- **Versions:**
  - VIM554-01-R1: 4x audio (mono) and 4x video channels, Weight: no more than 320 g;
  - VIM554-02-R1: 8x audio (mono) and 8x video channels, Weight: no more than 380 g.

- **Options:**
  - Conformal coating.

- **Delivery checklist**
  1. VIM554 Audio / Video Input Module;
  2. Package.