

# TC-710N1

Audio and Video Capture Card

Specification



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## 1 Update Records

| Document Version | Release Time      | Update Record |
|------------------|-------------------|---------------|
| V4.0             | July 17(th), 2025 | First release |

## 2 Product Introduction

The TC-710N1 Audio/Video Capture Card features 1×HDMI 2.0 input and 1×HDMI 2.0 loop-out port, supporting input and output frame rates up to 4096×2160p@60/50fps. It enables high-quality 4K Ultra HD audio/video capture and transmission while supporting multiple resolution formats to meet diverse application requirements. For audio, it supports Stereo/16-bit/32000~48000Hz audio formats, ensuring outstanding synchronization between audio and video capture.

## 3 product characteristics

- 1-channel 4K HDMI high-definition audio/video capture card
- Interfaces: Input: 1×HDMI 2.0, Loop-out: 1×HDMI 2.0
- Supports low delay, multi-channel capture per card, and high image quality
- Supports 1 channel of HDMI 2.0 4K60Hz input and storage
- High stability and excellent compatibility
- Primary application areas: High-end video capture

## 4 Application Scenarios



## 5 Product Appearance

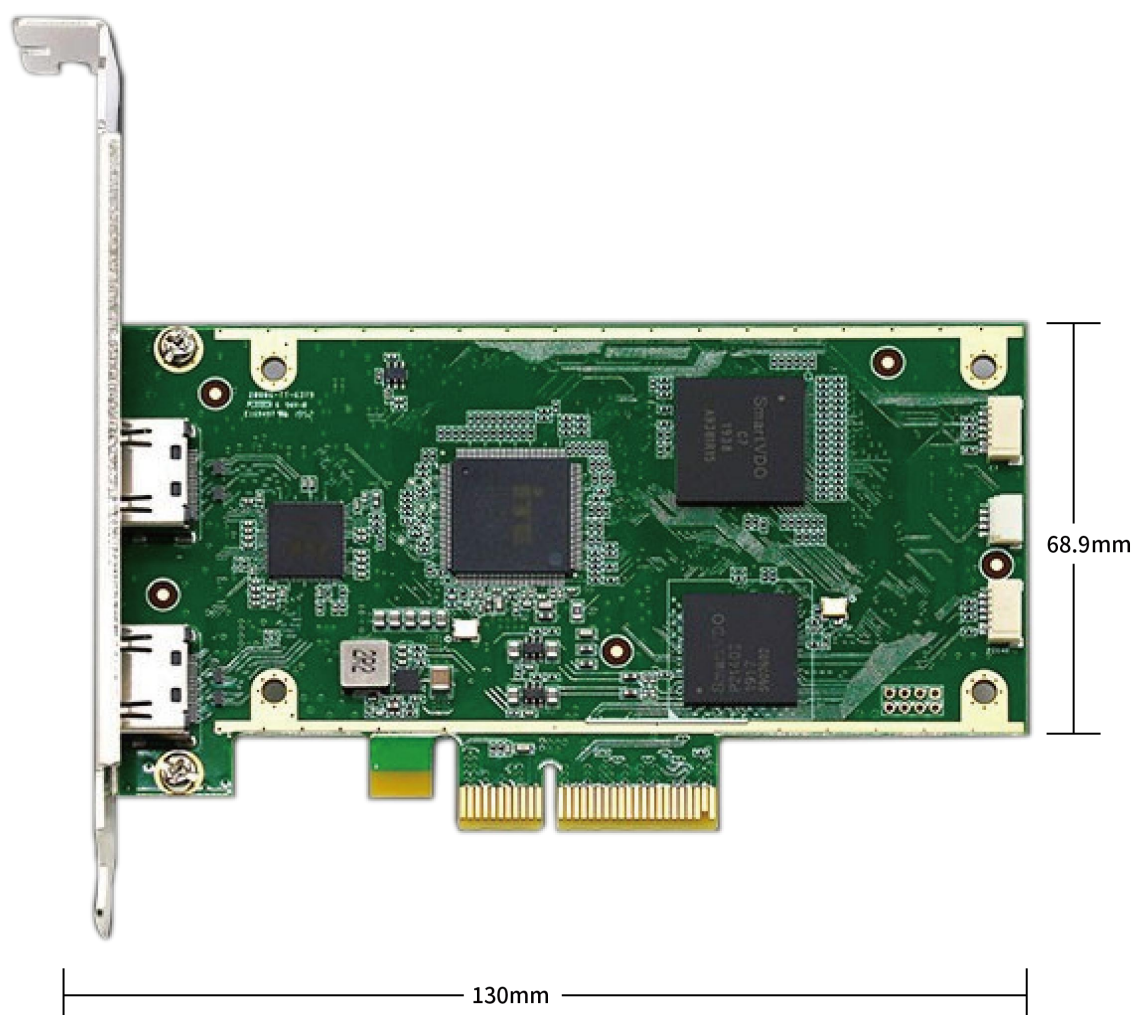


\* Product photos are for reference only, please refer to the products actually purchased.

## 5.1 Data Interface Description

| Name     | Illustration                                                                                                                 |
|----------|------------------------------------------------------------------------------------------------------------------------------|
| HDMI IN  | 4×HDMI signal inputs, capable of connecting to video sources such as cameras, conference terminals, and production consoles. |
| HDMI OUT | HDMI signal loop-out, compatible with TVs, monitors, and other devices.                                                      |

## 5.2 Product Dimensions



Tolerance: 0.3 unit: mm

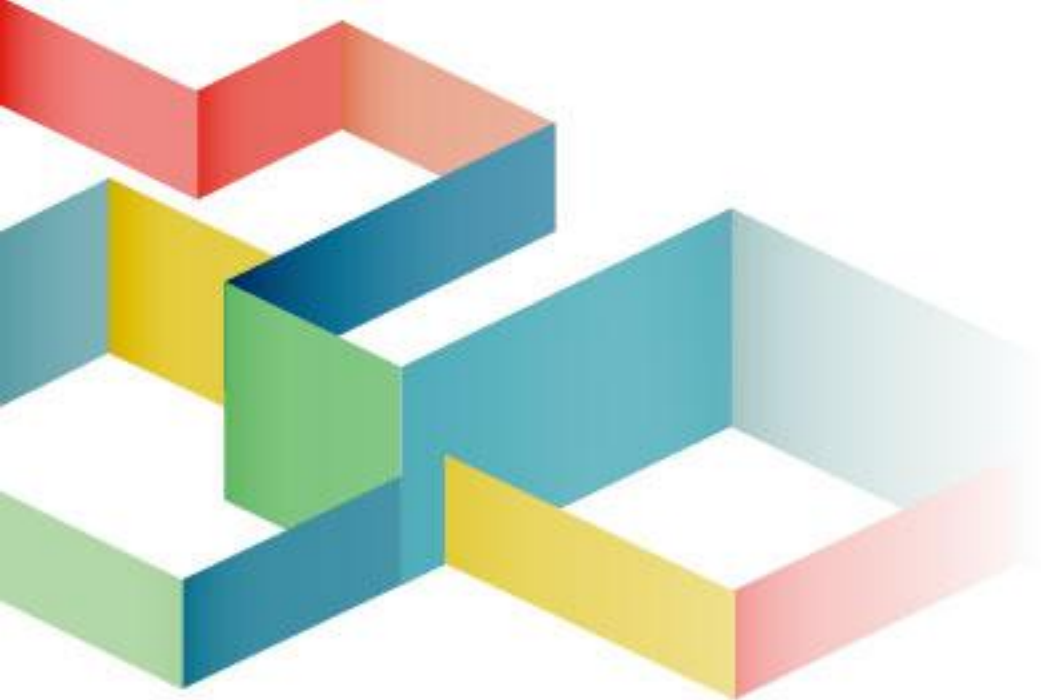
## 6 Product Parameters

|                      |                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Model        | TC-710N1                                                                                                                                                                                                                                                                                                                                  |
| Maximum Frame Rate   | Input Frame Rate: 4096×2160p@60/50 → Output Frame Rate: 4096×2160p@60/50                                                                                                                                                                                                                                                                  |
| Recording Mode       | Software compression, real-time mode                                                                                                                                                                                                                                                                                                      |
| Dimensions           | 130×68.9 (mm) PCIe half-height                                                                                                                                                                                                                                                                                                            |
| Host Interface       | PCIe×4 (Gen2)                                                                                                                                                                                                                                                                                                                             |
| Video Input          | 1×HDMI 2.0 (HDR supports HDR10/HLG, RGB/YUV420/422/444 8/10-bit, 3D supports HDMI 1.4B 3D specification)                                                                                                                                                                                                                                  |
| Display Format       | 1×HDMI 2.0 (Loop-out, HDR support: HDR10/HLG, RGB/YUV420/422/444 8/10-bit, 3D support: HDMI 1.4B 3D specification)                                                                                                                                                                                                                        |
| Raw Video Resolution | HDMI2.0<br>4096×2160@60/50/30/25/24fps<br>3840×2160@60/50/30/25/24fps<br>1920×1080p@60/50fps<br>1920×1080p@30/25/24fps<br>1920×1080i@60/50fps<br>1280×720p@60/50fps<br>1280×1024p@60fps<br>1280×960p@60fps<br>1024×768p@60fps<br>800×600p@60fps<br>640×480p@60fps<br>720×480p@60fps<br>720×576p@50fps<br>720×480i@60fps<br>720×576i@50fps |
| Recording Format     | H.264 High Profile                                                                                                                                                                                                                                                                                                                        |

|                        |                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolution             | HDMI2.0<br>4096×2160@60/50/30/25/24fps<br>3840×2160@60/50/30/25/24fps<br>1920×1080p@60/50fps<br>1920×1080p@30/25/24fps<br>1920×1080i@60/50fps<br>1280×720p@60/50fps<br>1280×1024p@60fps<br>1280×960p@60fps<br>1024×768p@60fps<br>800×600p@60fps<br>640×480p@60fps<br>720×480p@60fps<br>720×576p@50fps<br>720×480i@60fps<br>720×576i@50fps |
| Audio Input Interface  | 1×HDMI Embedded Audio                                                                                                                                                                                                                                                                                                                     |
| Audio Output Interface | 1×HDMI Embedded Audio                                                                                                                                                                                                                                                                                                                     |
| Audio format           | Stereo/16-bit/32000~48000Hz                                                                                                                                                                                                                                                                                                               |
| I/O                    | 16                                                                                                                                                                                                                                                                                                                                        |
| Watchdog Timer         | √                                                                                                                                                                                                                                                                                                                                         |
| Multi-card Support     | ∞                                                                                                                                                                                                                                                                                                                                         |

## 6 Precautions

- The installation process must be completed by professionals.
- Must be antistatic.
- Please pay attention to waterproof and dust removal.



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