

## HDMI to USB Encoder

The Pico Encoder provides HDMI to USB Encoding and is designed to be integrated with our Pico Series Digital Data Links. The Pico Encoder provides powerful encoding for applications that require HDMI connectivity to our Pico Series Digital Data Links.

HDMI Input

USB 2.0 Output

Compact Size

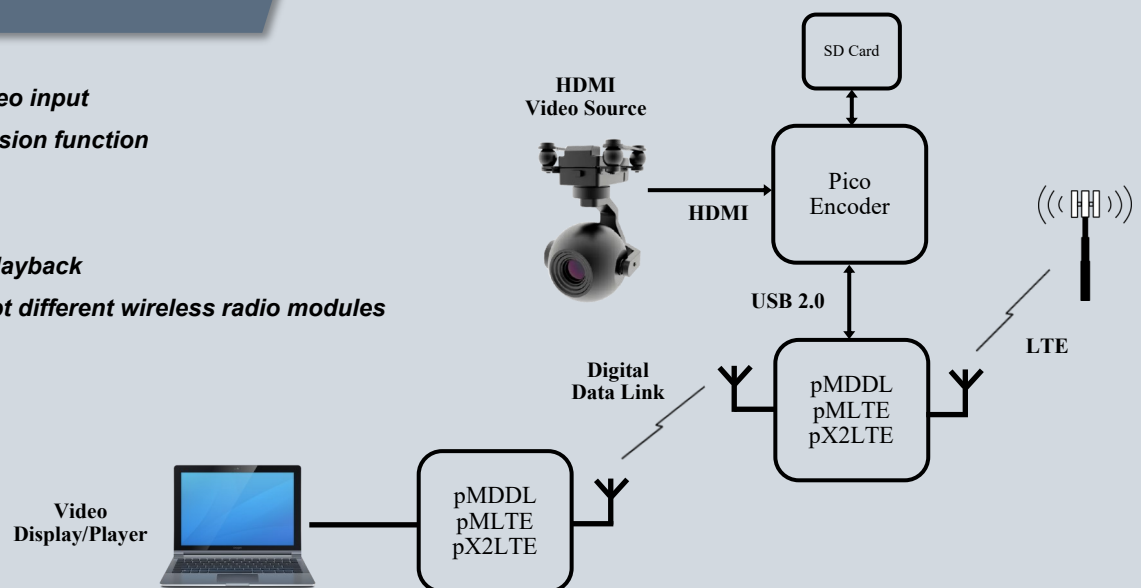
FHD Resolution



Optional Motherboard for Easy Testing & Evaluation!

## Features

- 1 channel of HDMI video input
- Built in H264 compression function
- USB 2.0 transmission
- SD Card storage
- PC / Android device playback
- AT commands to adapt different wireless radio modules



## Video Specifications

<b>Video Resolution</b>	<p><b>Input Resolution:</b> 1920x1080@60fps / 1920x1080@30fps / 1280x720@60fps / 1280x720@30fps</p> <p><b>Output Resolution:</b>                  [1080p] 1920x1080 @ 5~60fps                  [720p] 1280x720 @ 5~60fps                  [576p] 1024x576 @ 5~60fps                  [480p] 640x480 @ 5~60fps                  [240p] 320x240 @ 5~60fps</p> <p><b>Encode Rates:</b>                  2048 kbps ~ 10240 kbps                  1024 kbps ~ 8192 kbps                  500 kbps ~ 4096 kbps                  250 kbps ~ 2048 kbps                  120 kbps ~ 1024 kbps</p>
<b>Video Encoding</b>	<ul style="list-style-type: none"> <li>• H.264 BP/MP/HP</li> <li>• I/P/B frame H.264 encoding, supporting the dual-Pframe</li> <li>• reference mode</li> <li>• MJPEG/JPEG Baseline encoding</li> </ul>
<b>Video Processing</b>	<ul style="list-style-type: none"> <li>• ISP processing: Digital anti shake, electronic anti shake, video image enhancement, super high quality video shooting</li> <li>• The maximum output rate is 10Mbps</li> <li>• Transmission FPV</li> <li>• Video recording function (recording while transferring, circular recording)</li> <li>• Fixed time capture (record fixed time capture while transferring)</li> <li>• TCP / UDP transmission switching</li> <li>• Fixed output resolution and dynamic output resolution</li> </ul>
<b>Video Performance</b>	<ul style="list-style-type: none"> <li>• Time Delay: The lowest time delay is 190ms</li> <li>• Video format switching time: 350ms</li> </ul> <p><i>The Video format switching time can be changed according to the transmission situation to switch simultaneous interpreting of different resolutions / bitrate / frame rate to different transmission conditions</i></p>
<b>Interface &amp; Control</b>	<ul style="list-style-type: none"> <li>• Web page maintenance</li> <li>• Web page upgrade</li> <li>• FTP upgrade</li> <li>• USB Port: Network interface for video stream &amp; virtual comport for AT commands</li> </ul>

## Electrical & Mechanical

<b>Dimensions</b>	OEM: 1.05 x 1.3 x .22" (27 x 33 x 5.5mm) Motherboard: 3.0 x 3.2 x 0.65" (75 x 81 x 17mm)
<b>Weight</b>	OEM: 8 grams Motherboard: 33 grams Combined: 41 grams
<b>Temperature</b>	-40°C to +85°C
<b>Humidity</b>	5-95%, non-condensing
<b>Interfaces</b>	OEM: 80 Pin SMT Motherboard: MicroSD Slot 6-Pin Quick Connect 4-Pin Quick Connect Micro-USB Micro-HDMI
<b>Input Voltage</b>	OEM: 3.3 V <sub>DC</sub> , 5 V <sub>DC</sub> Motherboard: 5 V <sub>DC</sub>

## Order Options

<b>MHK189700</b>	pEDR100
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