



# AUTOMOTIVE CAMERA INJECTION BOX

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## PRODUCT OVERVIEW

This device converts HDMI video signals into camera serial signals, designed for domain controller development applications such as simulation injection, road-collected data replay.

ACIB 2000 Series: HDMI to GMSL/FPD-Link Converter.

## FUNCTIONAL SPECIFICATIONS

### VIDEO INJECTION

- Converts HDMI video content into camera serial data streams (e.g., GMSL1/2, FPD-Link).
- Supports inputs from simulation software, Road-collected video, and other digital video formats.
- 4 HDMI Inputs with customizable resolution and frame rates.
- 4 Serial Data Outputs for interfacing with Domain controller
- Supports customizable serializer models (Maxim/TI/THine/RHOM compatible)
- Supports multiple serializer configurations on a single board.
- Supports customizable IIC handshake protocols
- Single-Channel Resolution: Up to 8MP (8M pixels) at 30 fps.
- Supports video formats including RAW/YUV.
- Compatible with MIPI/DVP interface protocols.
- Channel Synchronization Accuracy:  $\leq 1$  ms.
- Supports Ethernet expansion and synchronization for video units

### ETHERNET MANAGEMENT

- 100/1000M Base-T Ethernet interface.
- Remote firmware updates via Ethernet.

### DEBUGGING

- Debug interface support for system diagnostics.

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### KEY PARAMETER

#### Hardware Interfaces

HDMI Input Ports	4	Fakra Output Ports	4
RJ45 Ethernet Port	1	Debug Port	1
Power Port	1		

#### Electrical Specifications

Input Voltage	12V DC	Operating Current	$\leq 1.5A$ (Max)
Power Consumption	$\leq 18W$ (Max)		

#### Mechanical & Environmental Specifications

Size	255.3 mm(L) × 150 mm(W) × 60 mm(H)		
Weight	$\approx 1.7$ kg		
Storage Temperature	-10°C to 50°C	Operating Temperature	0°C to 40°C
Operating Humidity	10% to 90% RH(Non-condensing)		
IP Rating	IP20 (Dust/Water resistance)		
Enclosure	Full aluminum alloy chassis with high-durability connectors		

## PRODUCT APPEARANCE

