

flexmedia XM

GMSL2TC1

GMSL2 Multimedia Stream Programmable Generator

The Flexmedia XM GMSL2TC1 module is a versatile video generator based on the Maxim GMSL2 serializer.

It can be used to generate and transmit multimedia digital streams to multimedia digital receivers compatible with MAX96765.

The GMSL2TC1 module is ideally suited for test applications in the automotive industry:

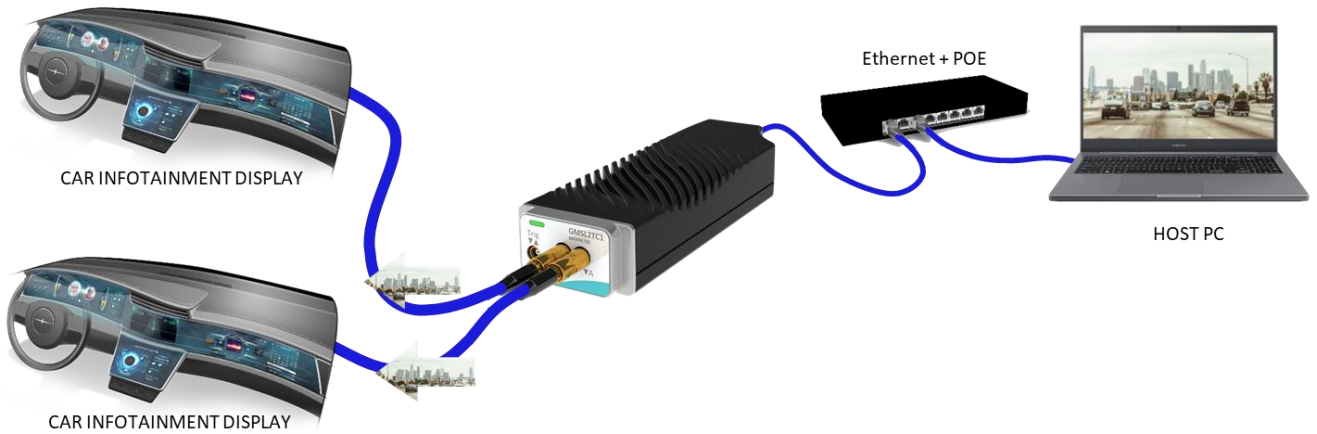
- Automotive Infotainment
- Multi-camera driver assistance systems
- Automotive satellite RADAR & LIDAR



Functions & Features

- MAX96765 serializer over coaxial
- Fully supported chipset functions
- Programmable frame size, synchs & porches
- Customizable video frame content from image files
- Still frame and circular buffer movie modes
- Real-time adjustable overlays
- RGB and YCbCr selectable color spaces
- 4:2:2 chroma sub-sampling and ITU656 coder
- Optional arbitrary audio generator
- Bidirectional sideband communication support
- Programmable I/O trigger

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Features	Specifications
MAX96765 Serializer	Maxim Integrated™ MAX96765 GMSL2 Serializer, able to transmit a single or dual-link GMSL2 multimedia serial output
Pixel Clock	Up to 200 MHz - Accuracy 20 ppm
I/O Connectors:	
✓ Front side	1 x MCX receptacle, 50 Ω 2 x SMB connectors, 50 Ω
✓ Rear side	1 x RJ-45 (8P8C) PoE

General Specifications	Value
Control interface	10/100/1000 Mbps Ethernet connection - Configurable IP address (static or DHCP)
Power Supply	PoE IEEE 802.3af
Input Voltage	22 - 52 VDC
Input Current	max 500 mA (fuse-protected)
Input Power	max 7W
Power Class	0 (max 13W)
Dimensions	24mm x 43mm x 141mm
Weight	180g
Environmental:	Operating: 5°C to 40°C Storage: -5°C to 60°C

Interfacing Methods				
Command Line Interface	C#/C++ SDK	GUI	LabVIEW	Supernova/TestStand
✓	✓	✓	✓	✓