

Parameter-Checklist for Automotive Video Projects

Please make sure that you select the right parameters depending on your device, **not all** video devices support them.

General Information	Customer name:			
	Technical contact person (with e-mail address):			
	Project title:			
	Expected use case (What is the application like?):			
Technical basics	Planned quantity of hardware:			
	Desired test hardware format:	<input type="checkbox"/> Box (GigE)	<input type="checkbox"/> PCIe Card*	<input type="checkbox"/> PXIe Card*
	Number of Video inputs on UUT:			
	Number of Video outputs on UUT:			

Hardware Information	UUT Video IN/OUT 1		
	<input type="checkbox"/> Input	<input type="checkbox"/> Output	
	Source/ Sink IC (de-/serializer type) of UUT		
	Video connector type (Coax (Fakra), STP, etc.) and vendor ID:		
	Pinning of video connector:		
	Power supply of UUT via video cable? If Yes - voltage and current consumption:	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Video Parameters	Pixel clock:		
	Image width:		
	Image height:		
	Frame rate:		
	HorizontalSyncPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low
	VerticalSyncPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low
	DataEnablePolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low

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SWIFT HELA DEF 1 JEN

IBAN DE24 8305 3030 0000 260525


 Management
System
ISO 9001:2015

 www.tuv.com
ID: 0910067925

Video Parameters	PixelClockPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	LockOutputEnable:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	LockPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	Video format (RGB888, YUV422, RAW12, etc.):			
	Number of video channels per stream:			
	Is HDCP used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Sideband Communication	I ² C:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	UART:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	SPI:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	MII:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	CAN:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Chip dependent Information	Texas Instruments Chip			
	FPD Link:	<input type="checkbox"/> FPD Link I	<input type="checkbox"/> FPD Link II	<input type="checkbox"/> FPD Link III
	Backward compatible mode:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	Low frequency mode:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	FPD Link III Transfer Mode:	<input type="checkbox"/> Single Lane	<input type="checkbox"/> Dual Lane	
	FPD Link III Transfer Mode:			
	Additional Information:			
	Maxim Chip			
	GMSL version:	<input type="checkbox"/> GMSL I	<input type="checkbox"/> GMSL II	<input type="checkbox"/> GMSL III
	Bus width/ Bus mode:	<input type="checkbox"/> 24 bit	<input type="checkbox"/> 32 bit	<input type="checkbox"/> 64 bit

Hardware Information	UUT Video IN/OUT 2		
	<input type="checkbox"/> Input	<input type="checkbox"/> Output	
	Source/ Sink IC (de-/serializer type) of UUT:		
	Video connector type (Coax (Fakra), STP, etc.) and vendor ID:		
	Pinning of video connector:		
	Power supply of UUT via video cable? If Yes - voltage and current consumption:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Video Parameters	Pixel clock:		
	Image width:		
	Image height:		
	Frame rate:		
	HorizontalSyncPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low
	VerticalSyncPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low
	DataEnablePolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low

Video Parameters	PixelClockPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	LockOutputEnable:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	LockPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	Video format (RGB888, YUV422, RAW12, etc.):			
	Number of video channels per stream:			
	Is HDCP used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Sideband Communication	I ² C:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	UART:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	SPI:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	MII:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	CAN:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Chip dependent Information	Texas Instruments Chip			
	FPD Link:	<input type="checkbox"/> FPD Link I	<input type="checkbox"/> FPD Link II	<input type="checkbox"/> FPD Link III
	Backward compatible mode:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	Low frequency mode:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	FPD Link III Transfer Mode	<input type="checkbox"/> Single Lane	<input type="checkbox"/> Dual Lane	
	APIX Chip			
	APIX version:	<input type="checkbox"/> APIX I	<input type="checkbox"/> APIX II	<input type="checkbox"/> APIX III
	Maxim Chip			
	GMSL version:	<input type="checkbox"/> GMSL I	<input type="checkbox"/> GMSL II	<input type="checkbox"/> GMSL III
	Bus width/ Bus mode:	<input type="checkbox"/> 24 bit	<input type="checkbox"/> 32 bit	<input type="checkbox"/> 64 bit

Hardware Information	UUT Video IN/OUT 3		
	<input type="checkbox"/> Input	<input type="checkbox"/> Output	
	Source/ Sink IC (de-/serializer type) of UUT:		
	Video connector type (Coax (Fakra), STP, etc.) and vendor ID:		
	Pinning of video connector:		
Video Parameters	Power supply of UUT via video cable? If Yes - voltage and current consumption:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Pixel clock:		
	Image width:		
	Image height:		
	Frame rate:		
	HorizontalSyncPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low
	VerticalSyncPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low
	DataEnablePolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low

Video Parameters	PixelClockPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	LockOutputEnable:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	LockPolarity:	<input type="checkbox"/> High	<input type="checkbox"/> Low	
	Video format (RGB888, YUV422, RAW12, etc.):			
	Number of video channels per stream:			
	Is HDCP used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Sideband Communication	I ² C:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	UART:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	SPI:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	MII:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	CAN:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Chip dependent Information	Texas Instruments Chip			
	FPD Link:	<input type="checkbox"/> FPD Link I	<input type="checkbox"/> FPD Link II	<input type="checkbox"/> FPD Link III
	Backward compatible mode:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	Low frequency mode:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	FPD Link III Transfer Mode:	<input type="checkbox"/> Single Lane	<input type="checkbox"/> Dual Lane	
	APIX Chip			
	APIX version:	<input type="checkbox"/> APIX I	<input type="checkbox"/> APIX II	<input type="checkbox"/> APIX III
	Maxim Chip			
	GMSL version:	<input type="checkbox"/> GMSL I	<input type="checkbox"/> GMSL II	<input type="checkbox"/> GMSL III
	Bus width/ Bus mode:	<input type="checkbox"/> 24 bit	<input type="checkbox"/> 32 bit	<input type="checkbox"/> 64 bit
Any other Business	Are you interested in the Dragon Suite Advanced software? **	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	Do you need start-up support? ***	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	Remarks:			

Some parameters are not supported by all our video devices. Please be not confused when unnecessary information is requested for your project. Please give us as much information as possible about your project. Only in this way we can create an offer that fits your application.

Please add a detailed schematic of your application to the checklist.

* Only available for Series 62 (Video Dragon 2)

** The **Dragon Suite** software is provided free of charge to our customers to help them work with their Göpel video devices. This includes configuring the device, generating and capturing images and videos, sideband communication as well as various IO and CAN functions.

In addition, the tool offers additional features that are available as a paid **Dragon Suite Advanced** (such as Script Interface and Raw Data Recording) and are constantly being further developed. If you have any additional expansion requests, please contact our support team (support@gopel.com).

*** We are delighted to support our customers in the start-up and development of their applications. In case of increased effort, we will offer you a fee-based support.