G Patch 6222

Manual (Original documentation)

GOPEL electronic

Enjoy Testing

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Table 1: List of changes to this document

Date	Editor	Rev	Comment
2021-04-07	E. Richter	2.0.0	Document created in LaTex
2021-04-30	E. Richter	2.0.1	Variants 6 - 10 added
2022-02-21	E. Richter	2.0.2	Scope of delivery of the connection cable changed to optional

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1 Introduction

1.1 Notes on this document

This document applies only to the device type **G Patch 6222**. Any handling of the device requires the exact knowledge and observance of this manual. The operational safety and the function of the device can only be guaranteed if both the general safety and accident prevention regulations of the legislator and the safety instructions in the manual are observed.

The manual is part of the product. Please make sure that all persons who operate the device have read and understood the manual. Keep the manual in a safe place so that it can be used whenever needed.

This guide highlights some important comments as follows:

Table 1.1: Symbols

Symbol	Description
	Warning that indicates risk situations and dangers. Disregard can lead to life-threatening situations.
	Information that indicates certain aspects or is important for a particular topic or goal.
	Tip that gives useful hints or recommendations.

1.2 Intended Use

G Patch 6222 is a breakout box for easier contacting of a **Video Dragon 6222** with your test object. Typical applications are (depending on the variant):.

- Contacting of **Video Dragon 6222** and test object
- Supply of the test object with power
- Decoupling of MII/ Ethernet for **Media Interface** boards with APIX support

If you use the device for any purpose for which it is not intended, the **GÖPEL electronic GmbH** can not be held liable for resulting damage.

The device is intended for indoor use only and to be used only at an ambient temperature of 0 ° C - +70 ° C. It must not be exposed to extreme temperatures, temperature fluctuations, heating and cooling systems, direct sunlight, high levels of dust, vibration and impact, extreme humidity or moisture.

The device is only to be used in a technically perfect condition as well as in accordance with its intended use, in a safety-conscious and hazard-conscious manner, observing the operating instructions! In particular, faults that may affect safety must be rectified immediately!

1.3 EMC Protection Measures

The **G Patch 6222** box complies with the electromagnetic compatibility directive (2014/30/EU).
In order to maintain electromagnetic compatibility, the system may only be operated in the delivered condition. Mechanical and electrical modifications of any kind are not permitted. Only use suitable shielded signal and control cables.

If the product is installed and operated in a system with other equipment, accessories and components, the system as a whole and all its equipment, accessories and components must conform to the EMC directives and standards. The system integrator is responsible for compliance with the EMC Directive 2014/30/EU and national EMC laws for installed systems, system accessories and system components that have not been supplied or tested and approved by **GÖPEL electronic** as manufacturer of the equipment.

1.4 General Safety Regulations

To avoid personal injury and / or property damage, follow these general safety instructions.

Risk of accident due to electric shock or fire

- In addition to the operating instructions, observe the legal requirements and regulations for accident prevention and environmental protection of the countries in which you operate the system.
- Do not make any changes to the system without the written consent of the manufacturer.
- Never operate damaged devices or components.
- Keep liquids away from the unit and do not place any containers with liquid on the unit.

Danger of tripping or falling due to improperly laid cables

- Lay cables so that nobody can step on them or trip over them.
- Never try to stretch cables to enable a connection. The cables must always have enough clearance.

Damage caused by improper use or failure to observe the safety instructions and warnings is not covered by the warranty. For consequential damages no liability is assumed by **GÖPEL electronic**!

1.5 Liability and Warranty Exclusion

The **G Patch 6222** box has not been developed, tested or intended for use in safety-related applications. Do not use the device for safety-related systems or vehicle subsystems. The use of such a device within motor vehicles to control the main vehicle functions can be dangerous and lead to malfunction of motor vehicles.

In no event shall **GÖPEL electronic** be responsible for any direct, indirect, incidental, special, exemplary, or consequential damages (including but not limited to the purchase of replacement goods or services, loss of use, loss of data or profit, breakdowns, injury, or potential death) in any way in the case of improper use of the **G Patch 6222**.

1.6 Supplied Accessories

As accessories to the **G Patch 6222** you get:

- **G Patch 6222**
- Optional: connecting cable **Video Dragon 6222 - G Patch 6222** (EPLSP cable (Eye Speed) from Samtec or Mini Fakra Coax cable; Length: 1m)
- Optional: connecting cable DUT - **G Patch 6222**

1.7 Commissioning

Please refer to the description of the connections of your **G Patch 6222** variant to perform the following steps:

1. Connect **G Patch 6222** to the **Video Dragon 6222** using the supplied connection cable
2. Connect **G Patch 6222** to the DUT according to the housing labeling
3. If necessary, connect **G Patch 6222** to the power supply and switch on voltage

2 Technical Description

2.1 Product Description

G Patch 6222 is a Breakout Box from **GÖPEL electronic** for simplified contacting of **Video Dragon 6222** devices with your DUTs. The test devices often have different connectors than the **Video Dragon 6222**. The box routes the signals from the **Video Dragon 6222** to various Coax and STP variants and at the same time offers the possibility to supply the test device with voltage.

Depending on which **Media Interface** is used in your **Video Dragon 6222** and whether the DUT has Coax or STP connectors, there is a corresponding **G Patch 6222** box variant. The variant to be used depends on whether Coax or STP is used/required and how many inputs and outputs the **Media Interface** offers. All current variants are explained in this document.

2.2 Variants

2.2.1 Compatibility

Which **Media Interface** modules are compatible with the different **G Patch 6222** variants can be found in the following table:

Table 2.1: Compatibility

Video Dragon 6222	G Patch 6222								
Media Interface	Coax Var. 1	Coax Var. 2	Coax Var.2.1	STP Var. 1	STP Var. 2	STP Var. 3	STP Var. 4	STP Var. 5	STP Var. 8
DS90UB940_2x STP					X				
DS90UB947_948 STP								X	
DS90UB953_4x Coax		X							
DS90UB954_4x Coax			X						
DS90UB953_954 Coax	X								
DS90UB953_954 STP						X			
DS90UB988 STP									X
INAP562T_562R STP				X			X		
MAX9295A_4x Coax		X							
MAX9296A_4x Coax			X						
MAX9295A_96A Coax	X								
MAX9295A_96A STP						X			
MAX96714_4x Coax		X							

The compatibility listed above is only given if you use standardized cables and pin assignments of the connectors. Otherwise, please contact our support team.

On the following pages the available **G Patch 6222** variants are listed in detail.

The designations of the connectors can be found on the bottom of your **G Patch 6222** device. In this way you can find the inputs and outputs of the signals described on the following pages.

2.2.2 Coax Variant 1

The **G Patch 6222** Coax variant 1 has 3 channels and is connected to the **Video Dragon 6222** via HFM (MiniFakra) cable. Each channel has a PowerOverCoax (PoC) filter which works from 3MHz to 3GHz. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.2: Technical data Coax variant 1

Property	Value	Unit	Comment
U_{MAX}	13	V	only DUT Power
I_{MAX} per channel	250	mA	only DUT Power
I_{MAX} total	1	A	only DUT Power
Dimensions	122 x 62 x 35	mm x mm x mm	L x W x H
(PoC) filter	Yes		3 MHz to 3 GHz

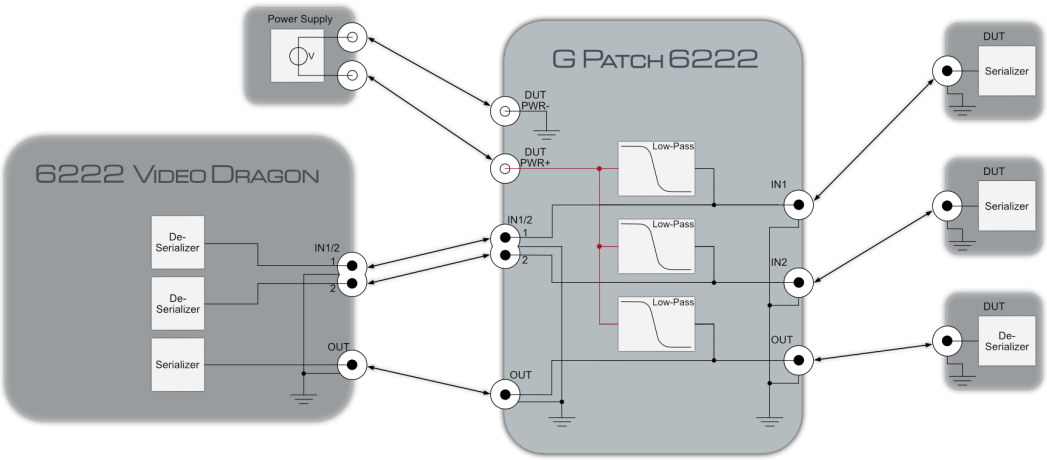


Figure 2.1: Block diagram of Coax variant 1

Table 2.3: Connector configuration Coax variant 1 - **Video Dragon 6222** side

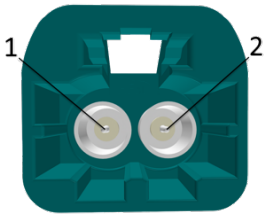
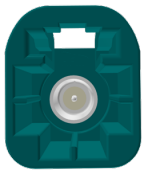
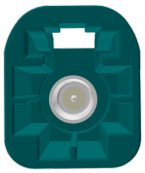
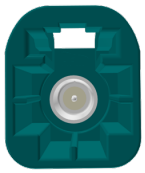
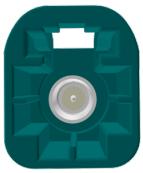
IN 1/2	OUT	DUT PWR-	DUT PWR+
			
AMS22B-40MZ5-Z	AMS22A-40MZ5-Z	Laboratory socket 4mm	

Table 2.4: Connector configuration Coax variant 1 - DUT side

OUT	IN2	IN1
		
AMS22A-40MZ5-Z		

2.2.3 Coax Variant 2

The **G Patch 6222** Coax variant 2 has 4 channels and is connected to the **Video Dragon 6222** via HFM (MiniFakra) cable. Each channel has a PowerOverCoax (PoC) filter which works from 3MHz to 3GHz. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.5: Technical data Coax variant 2

Property	Value	Unit	Comment
U_{MAX}	13	V	only DUT Power
I_{MAX} per channel	250	mA	only DUT Power
I_{MAX} total	1	A	only DUT Power
Dimensions	122 x 62 x 35	mm x mm x mm	L x W x H
(PoC) filter	Yes		3 MHz to 3 GHz

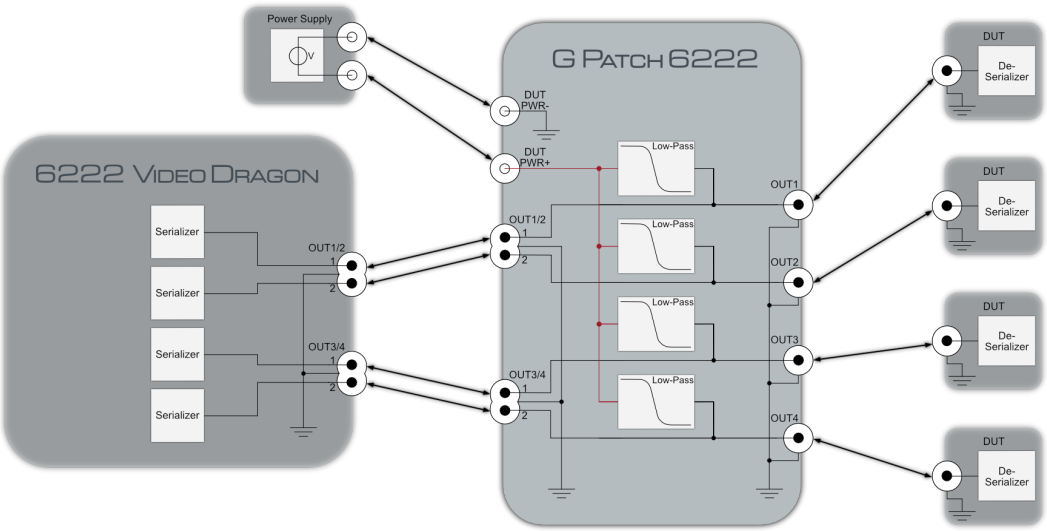


Figure 2.2: Block diagram of Coax variant 2

Table 2.6: Connector configuration Coax variant 2 - **Video Dragon 6222** side

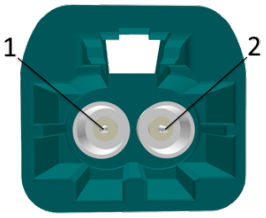
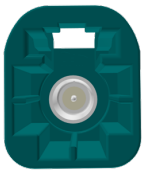
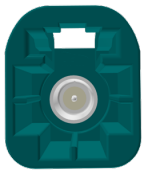
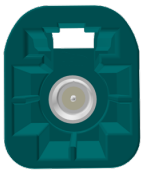
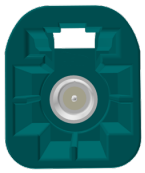
OUT 1/2	OUT 3/4	DUT PWR-	DUT PWR+
			
AMS22B-40MZ5-Z		Laboratory socket 4mm	

Table 2.7: Connector configuration Coax variant 2 - DUT side

OUT 4	OUT 3	OUT 2	OUT 1
			
AMS22A-40MZ5-Z			

2.2.4 Coax Variante 2.1

The **G Patch 6222** Coax variant 2.1 has 4 channels and is connected to the **Video Dragon 6222** via HFM (MiniFakra) cable. Each channel has a PowerOverCoax (PoC) filter which works from 3MHz to 3GHz. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.8: Technical data Coax variant 2.1

Property	Value	Unit	Comment
U_{MAX}	13	V	only DUT Power
I_{MAX} per channel	250	mA	only DUT Power
I_{MAX} total	1	A	only DUT Power
Dimensions	122 x 62 x 35	mm x mm x mm	L x W x H
(PoC) filter	Yes		3 MHz to 3 GHz

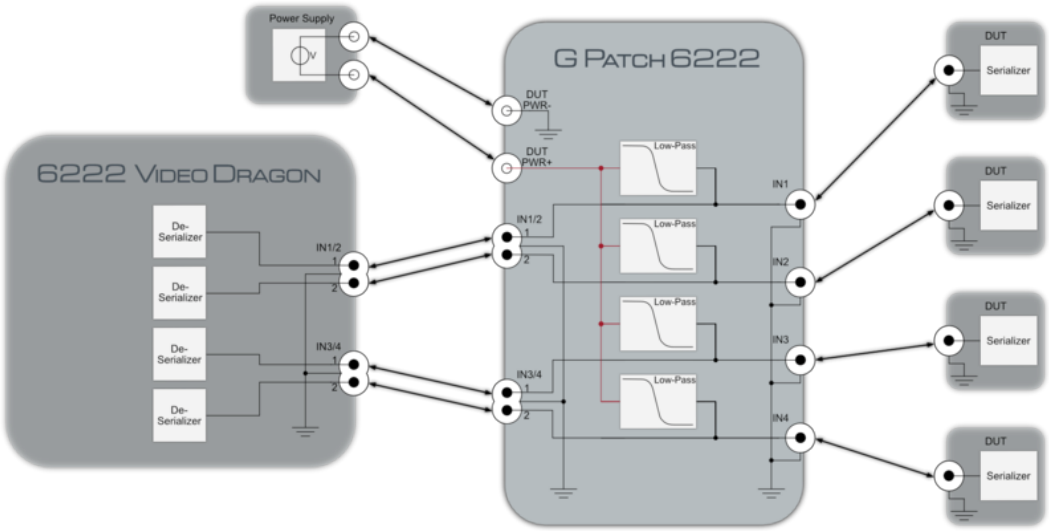


Figure 2.3: Block diagram of Coax variant 2.1

Table 2.9: Connector configuration Coax variant 2.1 - **Video Dragon 6222** side

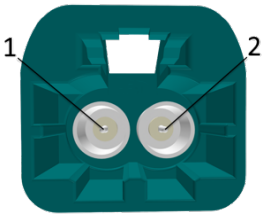
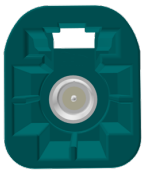
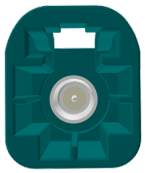
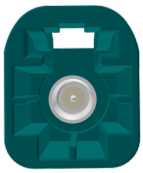
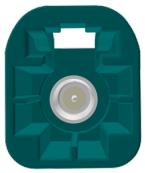
IN 1/2	IN 3/4	DUT PWR-	DUT PWR+
			
AMS22B-40MZ5-Z		Laboratory socket 4mm	

Table 2.10: Connector configuration Coax variant 2.1 - DUT side

IN 4	IN 3	IN 2	IN 1
			
AMS22A-40MZ5-Z			

2.2.5 STP Variant 1

The **G Patch 6222** STP variant 1 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 1 input and 1 output channel with 2 lanes each. It also has an Ethernet RJ45 connector for coupling and uncoupling MII/Ethernet up to 1GBit/s. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.11: Technical data STP variant 1

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 109 x 35	mm x mm x mm	L x W x H

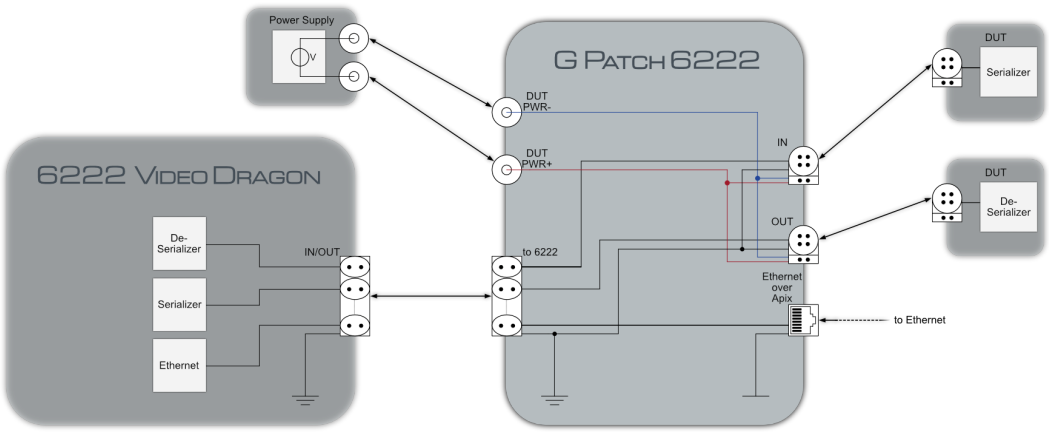


Figure 2.4: Block diagram of STP variant 1

Table 2.12: Connector configuration STP variant 1 - **Video Dragon 6222** side

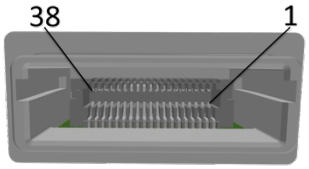
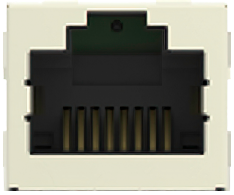
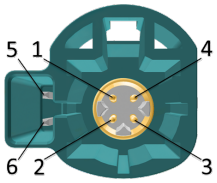
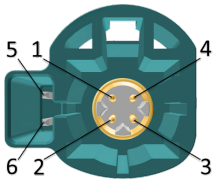
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.13: Connector configuration STP variant 1 - DUT side

Ethernet over APIX	OUT	IN
		
RJ45	99S20D-40MA5-Z	
	Pin1 = Channel 0n Pin2 = Channel 1p Pin3 = Channel 0p Pin4 = Channel 1n Pin5 = DUT PWR+ Pin6 = DUT PWR-	Pin1 = Channel 1n Pin2 = Channel 0p Pin3 = Channel 1p Pin4 = Channel 0n Pin5 = DUT PWR+ Pin6 = DUT PWR-

2.2.6 STP Variant 2

The **G Patch 6222** STP variant 2 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 2 input channels with 2 lanes each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.14: Technical data STP variant 2

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 60 x 35	mm x mm x mm	L x W x H

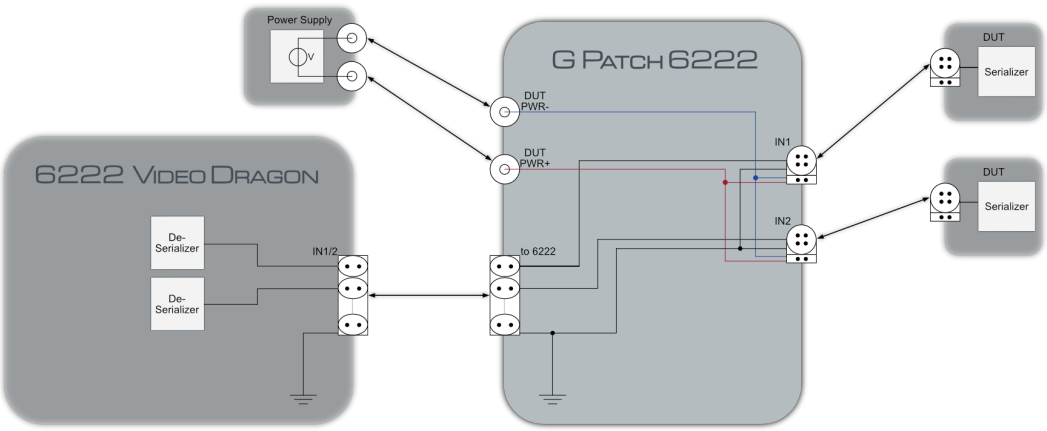


Figure 2.5: Block diagram of STP variant 2

Table 2.15: Connector configuration STP variant 2 - **Video Dragon 6222** side

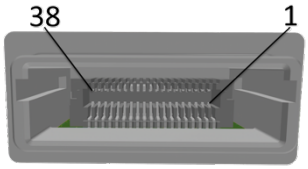
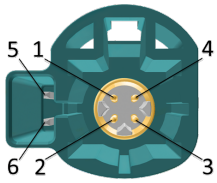
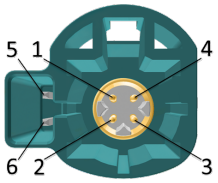
	DUT PWR+	DUT PWR-
		
ERI8-019-S-D-RA	Laboratory socket 4mm	

Table 2.16: Connector configuration STP variant 2 - DUT side

IN 1	IN 2
	
99S20D-40MA5-Z	
Pin1 = Channel 1p	Pin1 = Channel 1p
Pin2 = Channel 0p	Pin2 = Channel 0p
Pin3 = Channel 1n	Pin3 = Channel 1n
Pin4 = Channel 0n	Pin4 = Channel 0n
Pin5 = DUT PWR+	Pin5 = DUT PWR+
Pin6 = DUT PWR-	Pin6 = DUT PWR-

2.2.7 STP Variant 3

The **G Patch 6222** STP variant 3 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 2 input and 1 output channel with one lane each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.17: Technical data STP variant 3

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 110 x 35	mm x mm x mm	L x W x H

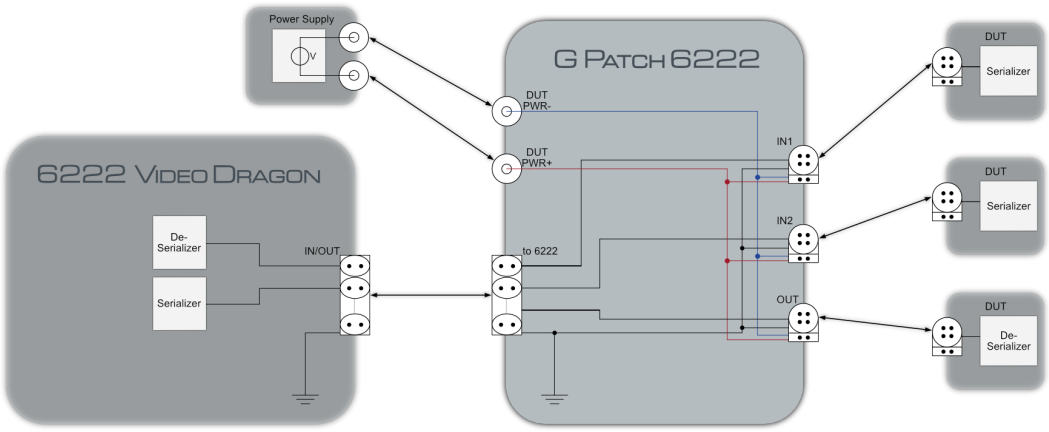


Figure 2.6: Block diagram of STP variant 3

Table 2.18: Connector configuration STP variant 3 - **Video Dragon 6222** side

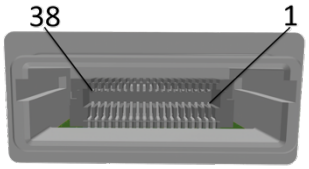
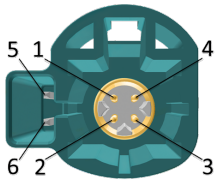
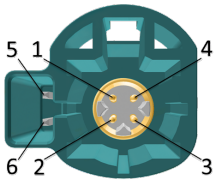
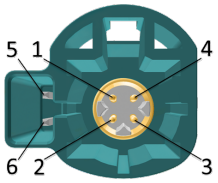
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.19: Connector configuration STP variant 3 - DUT side

OUT	IN 2	IN 1
		
99S20D-40MA5-Z		
Pin1 = Channel 0n	Pin1 = DUT PWR-	Pin1 = DUT PWR-
Pin2 = DUT PWR+	Pin2 = Channel 1p	Pin2 = Channel 0p
Pin3 = Channel 0p	Pin3 = DUT PWR+	Pin3 = DUT PWR+
Pin4 = DUT PWR-	Pin4 = Channel 1n	Pin4 = Channel 0n
Pin5 = DUT PWR+	Pin5 = DUT PWR+	Pin5 = DUT PWR+
Pin6 = DUT PWR-	Pin6 = DUT PWR-	Pin6 = DUT PWR-

2.2.8 STP Variant 4

The **G Patch 6222** STP variant 4 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 1 input and 1 output channel with 2 lanes each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.20: Technical data STP variant 4

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 60 x 35	mm x mm x mm	L x W x H

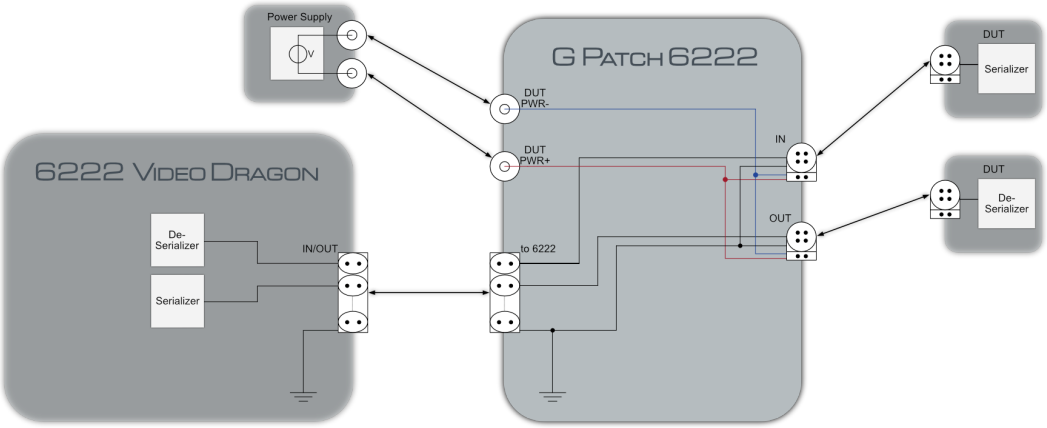


Figure 2.7: Block diagram of STP variant 4

Table 2.21: Connector configuration STP variant 4 - **Video Dragon 6222** side

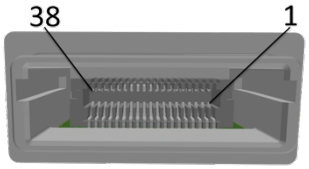
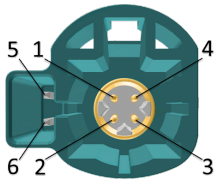
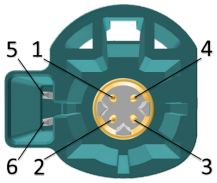
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.22: Connector configuration STP variant 4 - DUT side

OUT	IN
	
99S20D-40MA5-Z	
Pin1 = Channel 0n	Pin1 = Channel 1n
Pin2 = Channel 1p	Pin2 = Channel 0p
Pin3 = Channel 0p	Pin3 = Channel 1p
Pin4 = Channel 1n	Pin4 = Channel 0n
Pin5 = DUT PWR+	Pin5 = DUT PWR+
Pin6 = DUT PWR-	Pin6 = DUT PWR-

2.2.9 STP Variant 5

The **G Patch 6222** STP variant 5 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 1 input and 1 output channel with 2 lanes each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.23: Technical data STP variant 5

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 60 x 35	mm x mm x mm	L x W x H

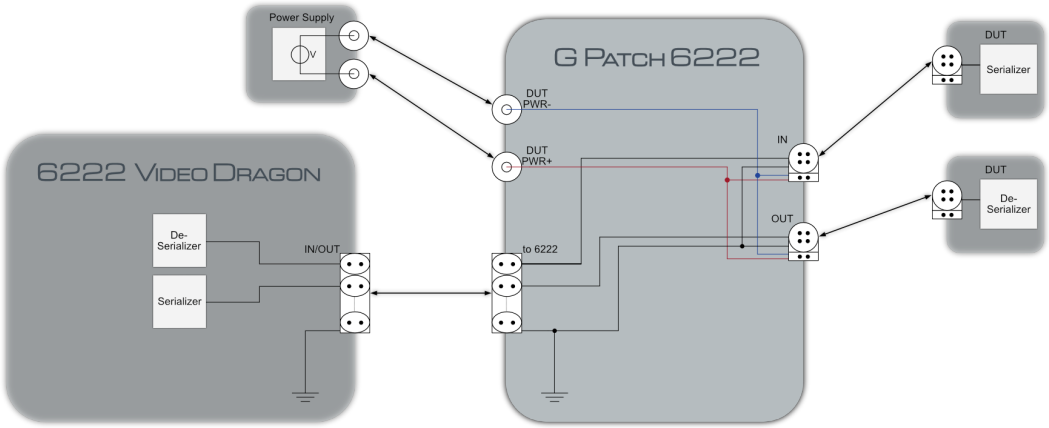


Figure 2.8: Block diagram of STP variant 5

Table 2.24: Connector configuration STP variant 5 - **Video Dragon 6222** side

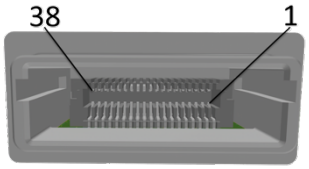
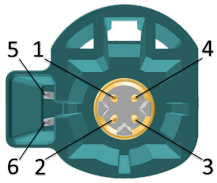
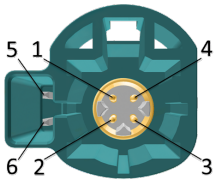
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.25: Connector configuration STP variant 5 - DUT side

OUT	IN
	
99S20D-40MA5-Z	
Pin1 = Channel 0n	Pin1 = Channel 1p
Pin2 = Channel 1n	Pin2 = Channel 0p
Pin3 = Channel 0p	Pin3 = Channel 1n
Pin4 = Channel 1p	Pin4 = Channel 0n
Pin5 = DUT PWR+	Pin5 = DUT PWR+
Pin6 = DUT PWR-	Pin6 = DUT PWR-

2.2.10 STP Variant 6

The **G Patch 6222** STP variant 6 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 1 input and 1 output channel with one lane each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.26: Technical data STP variant 6

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 60 x 35	mm x mm x mm	L x W x H

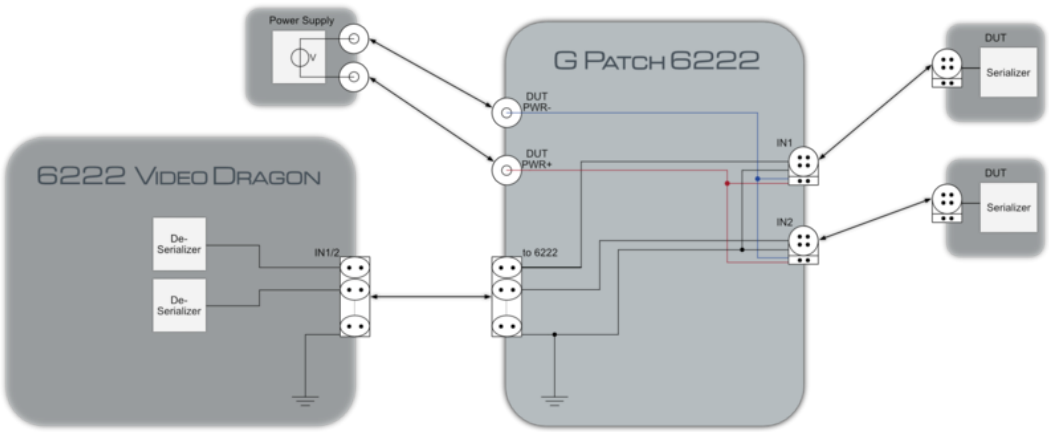


Figure 2.9: Block diagram of STP variant 6

Table 2.27: Connector configuration STP variant 6 - **Video Dragon 6222** side

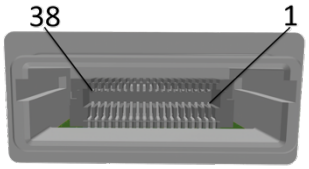
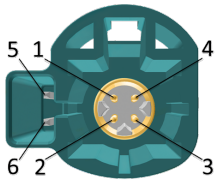
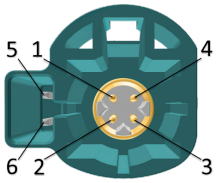
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.28: Connector configuration STP variant 6 - DUT side

IN 1	IN 2
	
99S20D-40MA5-Z	
Pin1 = DUT PWR-	Pin1 = DUT PWR-
Pin2 = Channel 0n	Pin2 = Channel 0n
Pin3 = DUT PWR+	Pin3 = DUT PWR+
Pin4 = Channel 0p	Pin4 = Channel 0p
Pin5 = DUT PWR+	Pin5 = DUT PWR+
Pin6 = DUT PWR-	Pin6 = DUT PWR-

2.2.11 STP Variant 6.1

The **G Patch 6222** STP variant 6.1 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 1 input channel with one lane. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.29: Technical data STP variant 6.1

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 60 x 35	mm x mm x mm	L x W x H

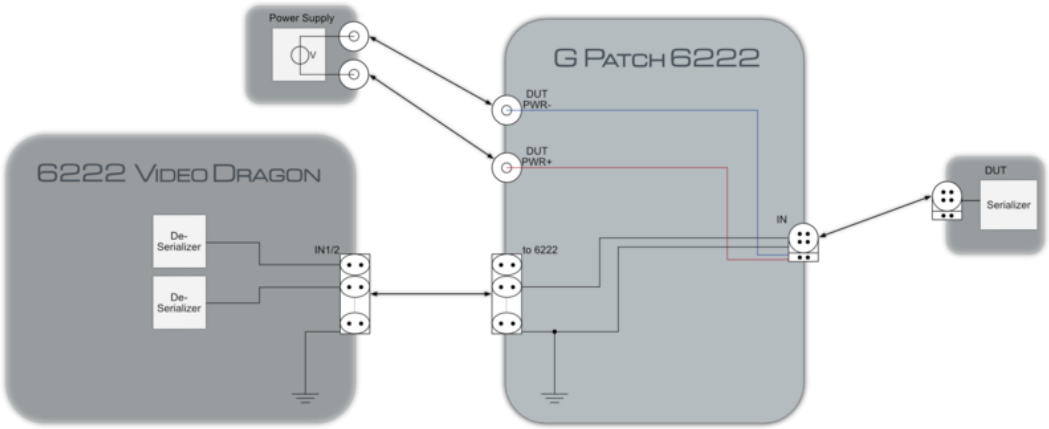


Figure 2.10: Block diagram of STP variant 6.1

Table 2.30: Connector configuration STP variant 6.1 - **Video Dragon 6222** side

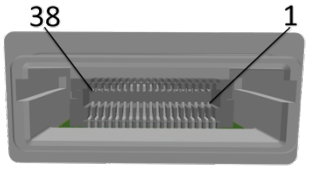
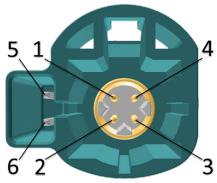
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.31: Connector configuration STP variant 6.1 - DUT side

IN

99S20D-40MA5-Z
Pin1 = DUT PWR-
Pin2 = Channel 0n
Pin3 = DUT PWR+
Pin4 = Channel 0p
Pin5 = DUT PWR+
Pin6 = DUT PWR-

2.2.12 STP Variant 7

The **G Patch 6222** STP variant 7 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 2 input and 1 output channel with one lane each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.32: Technical data STP variant 7

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 110 x 35	mm x mm x mm	L x W x H

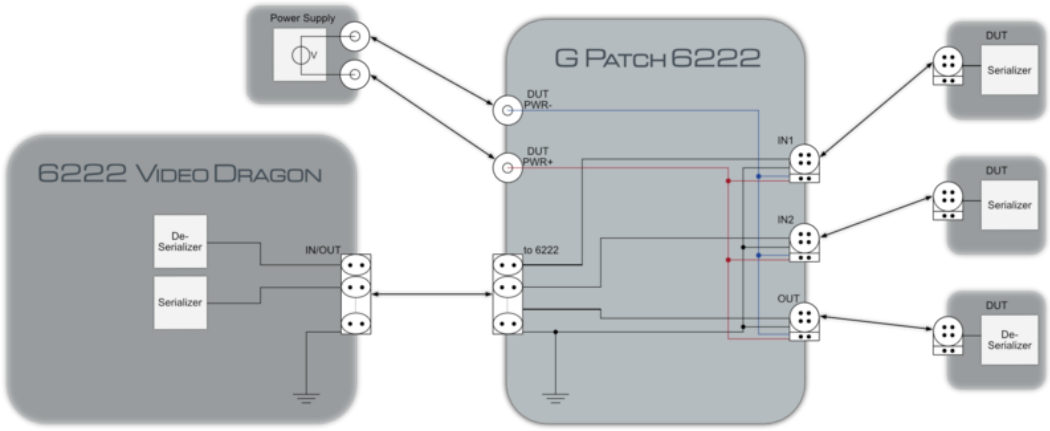


Figure 2.11: Block diagram of STP variant 7

Table 2.33: Connector configuration STP variant 7 - **Video Dragon 6222** side

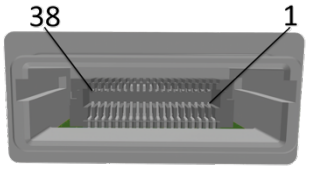
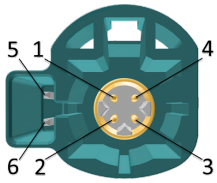
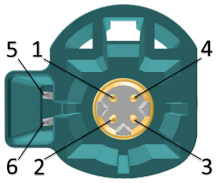
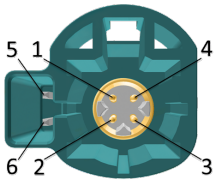
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.34: Connector configuration STP variant 7 - DUT side

OUT	IN 2	IN 1
		
99S20D-40MA5-Z		
Pin1 = n.c. Pin2 = Channel 0n Pin3 = n.c. Pin4 = Channel 0p Pin5 = DUT PWR+ Pin6 = DUT PWR-	Pin1 = Channel 1p Pin2 = n.c. Pin3 = Channel 1n Pin4 = n.c. Pin5 = DUT PWR+ Pin6 = DUT PWR-	Pin1 = Channel 0p Pin2 = n.c. Pin3 = Channel 0n Pin4 = n.c. Pin5 = DUT PWR+ Pin6 = DUT PWR-

2.2.13 STP Variant 7.1

The **G Patch 6222** STP variant 7.1 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 2 input and 1 output channel with one lane each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.35: Technical data STP variant 7.1

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 110 x 35	mm x mm x mm	L x W x H

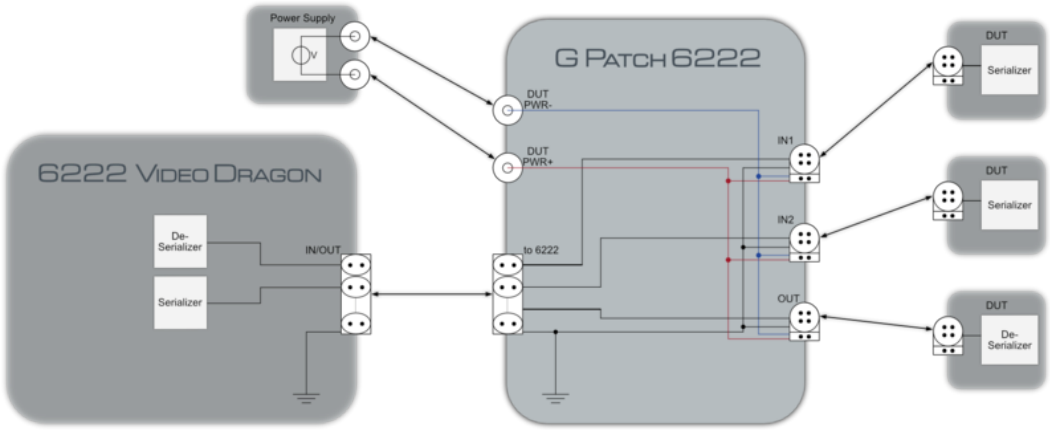


Figure 2.12: Block diagram of STP variant 7.1

Table 2.36: Connector configuration STP variant 7.1 - **Video Dragon 6222** side

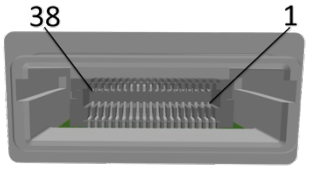
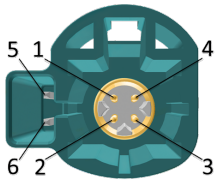
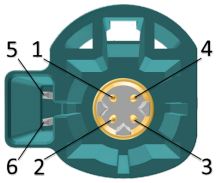
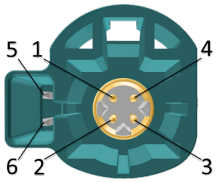
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.37: Connector configuration STP variant 7.1 - DUT side

OUT	IN 2	IN 1
		
99S20D-40MA5-Z		
Pin1 = DUT PWR+	Pin1 = Channel 1p	Pin1 = Channel 0p
Pin2 = Channel 0n	Pin2 = DUT PWR+	Pin2 = DUT PWR+
Pin3 = DUT PWR+	Pin3 = Channel 1n	Pin3 = Channel 0n
Pin4 = Channel 0p	Pin4 = DUT PWR+	Pin4 = DUT PWR+
Pin5 = DUT PWR+	Pin5 = DUT PWR+	Pin5 = DUT PWR+
Pin6 = DUT PWR-	Pin6 = DUT PWR-	Pin6 = DUT PWR-

2.2.14 STP Variant 8

The **G Patch 6222** STP variant 8 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 2 input and 2 output channels with one lane each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.38: Technical data STP variant 8

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 110 x 35	mm x mm x mm	L x W x H

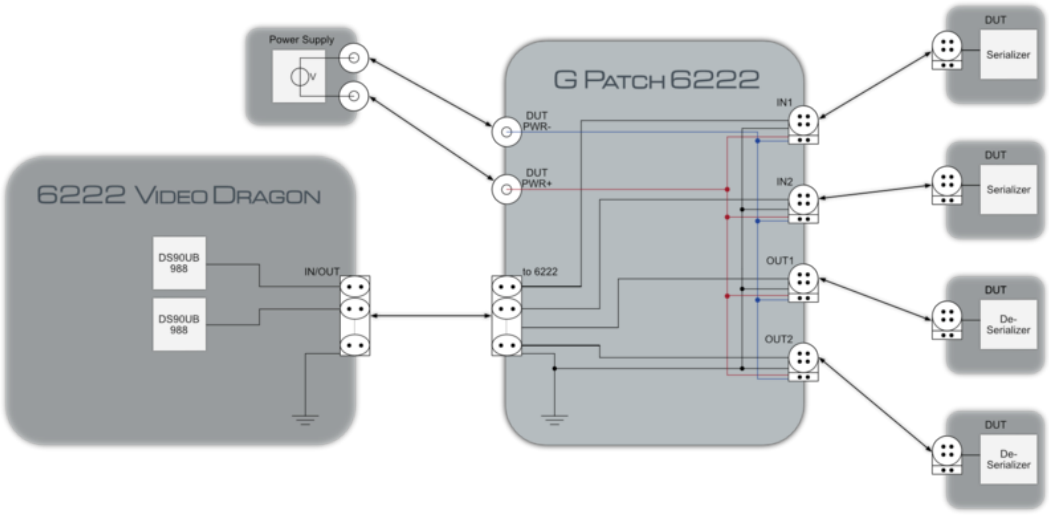


Figure 2.13: Block diagram of STP variant 8

Table 2.39: Connector configuration STP variant 8 - **Video Dragon 6222** side

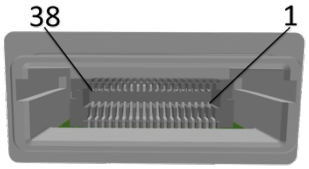
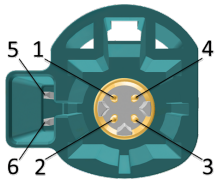
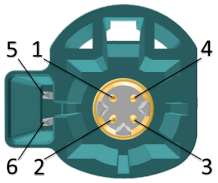
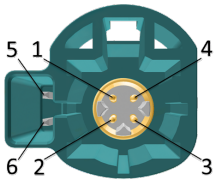
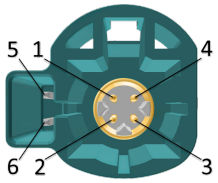
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.40: Connector configuration STP variant 8 - DUT side

OUT 2	OUT 1	IN 2	IN 1
			
99S20D-40MA5-Z			
Pin1 = Channel 2n	Pin1 = Channel 0n	Pin1 = Channel 3p	Pin1 = Channel 1p
Pin2 = Channel 3n	Pin2 = Channel 1n	Pin2 = Channel 2p	Pin2 = Channel 0p
Pin3 = Channel 2p	Pin3 = Channel 0p	Pin3 = Channel 3n	Pin3 = Channel 1n
Pin4 = Channel 3p	Pin4 = Channel 1p	Pin4 = Channel 2n	Pin4 = Channel 0n
Pin5 = DUT PWR+	Pin5 = DUT PWR+	Pin5 = DUT PWR+	Pin5 = DUT PWR+
Pin6 = DUT PWR-	Pin6 = DUT PWR-	Pin6 = DUT PWR-	Pin6 = DUT PWR-

2.2.15 STP Variant 9

The **G Patch 6222** STP variant 9 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 2 input and 2 output channels with one lane each.

Table 2.41: Technical data STP variant 9

Property	Value	Unit	Comment
U_{MAX}	-		
I_{MAX} per channel	-		
I_{MAX} total	-		
Dimensions	122 x 110 x 35	mm x mm x mm	L x W x H

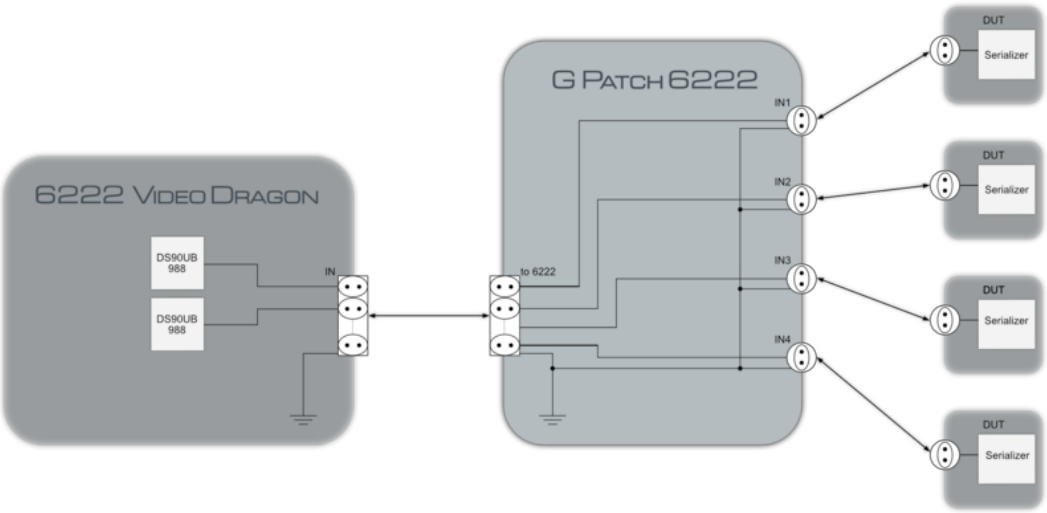
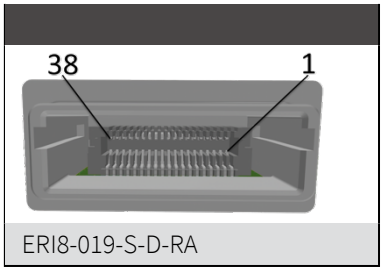


Figure 2.14: Block diagram of STP variant 9

Table 2.42: Connector configuration STP variant 9 - **Video Dragon 6222** side



ERI8-019-S-D-RA

Table 2.43: Connector configuration STP variant 9 - DUT side

OUT 2	OUT 1	IN 2	IN 1
E6S201-40MT5-Y			
Pin1 = Channel 3p Pin2 = Channel 3n	Pin1 = Channel 2p Pin2 = Channel 2n	Pin1 = Channel 1p Pin2 = Channel 1n	Pin1 = Channel 0p Pin2 = Channel 0n

2.2.16 STP Variant 10

The **G Patch 6222** STP variant 10 is connected to the **Video Dragon 6222** via an EPLSP cable (Eye Speed) from Samtec. This variant has 2 input and 1 output channel with one lane each. The power supply of the DUT can be established via two 4mm laboratory cables.

Table 2.44: Technical data STP variant 10

Property	Value	Unit	Comment
U_{MAX}	24	V	only DUT Power
I_{MAX} per channel	2	A	only DUT Power
I_{MAX} total	2.6	A	only DUT Power
Dimensions	122 x 110 x 35	mm x mm x mm	L x B x H

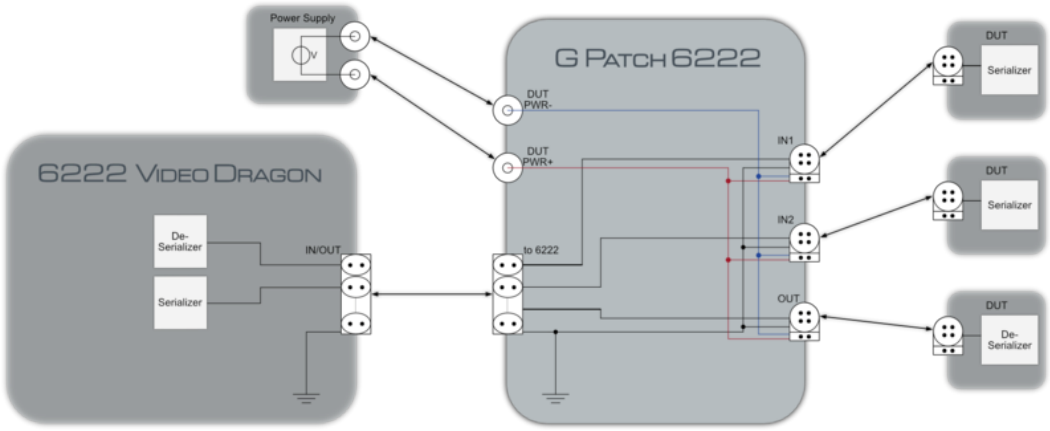


Figure 2.15: Block diagram of STP variant 10

Table 2.45: Connector configuration STP variant 10 - **Video Dragon 6222** side

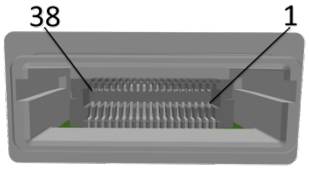
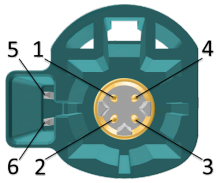
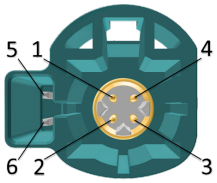
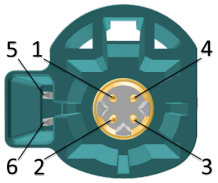
DUT PWR+	DUT PWR-	
		
Laboratory socket 4mm		ERI8-019-S-D-RA

Table 2.46: Connector configuration STP variant 10 - DUT side

OUT	IN 2	IN 1
		
99S20D-40MA5-Z		
Pin1 = Channel 0p	Pin1 = n.c.	Pin1 = n.c.
Pin2 = DUT PWR+	Pin2 = Channel 1n	Pin2 = Channel 0n
Pin3 = Channel 0n	Pin3 = n.c.	Pin3 = n.c.
Pin4 = DUT PWR+	Pin4 = Channel 1p	Pin4 = Channel 0p
Pin5 = DUT PWR+	Pin5 = DUT PWR+	Pin5 = DUT PWR+
Pin6 = DUT PWR-	Pin6 = DUT PWR-	Pin6 = DUT PWR-

3 Service and Support

3.1 Spare Parts and Accessories

If necessary, please contact our sales department:

GÖPEL electronic GmbH
ATS-Vertrieb
Göschwitzer Str. 58 / 60
D-07745 Jena
Tel.: +49-3641-6896-508
E-Mail: ats.sales@goepel.com
http://www.goepel.com

3.2 Warranty and Repair

3.2.1 Conditions

We guarantee the accuracy of the test system for a period of 24 months from the date of sale. The warranty does not apply to errors that are based on improper interventions or changes or improper use.

3.2.2 Identification

Furthermore, we ask you to announce possible warranty cases as such. Repair orders without reference to an existing warranty claim will in any case initially be paid. If the warranty has expired, we will of course also repair your test system in accordance with our general installation and service conditions.

If necessary, please contact our support service:

GÖPEL electronic GmbH
ATS-Support
Göschwitzer Str. 58 / 60
D-07745 Jena
Tel.: +49-3641-6896-597
E-Mail: ats.support@goepel.com
http://www.goepel.com

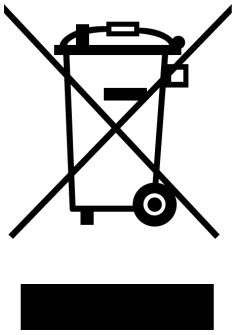
4 Disposal

4.1 Disposal of used Electrical / Electronic Equipment

The device implements the following EU directives:

- 2012/19/EU (WEEE) Waste Electrical and Electronic Equipment and
- 2011/65/EU on the restriction of the use of certain hazardous substances in electronic equipment (RoHS directive)

At the end of the life of the device, this product must not be disposed of with other household waste. The improper disposal of this type of waste can have a negative impact on the environment and health due to the potential hazardous substances in electrical and electronic equipment. Dispose of the product at a suitable collection point.



When disposing of the device in countries outside the EU, local laws and regulations must be observed.

4.2 Disposal of used Disposable Batteries / Rechargeable Batteries

At the end of the service life of disposable batteries / rechargeable batteries, these must not be disposed of with the normal household waste. Dispose of the disposable batteries / rechargeable batteries at a recycling center for disposable batteries and rechargeable batteries.

Please dispose of only discharged disposable batteries / rechargeable batteries.

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