

# HMI Validation using De-serializer setup

The MAX96752 De-serializer EV kit is used for fetching display data from the Silver Box into Test PC.

## Required Components:

- Deserializer EVkit (HSD) for SOP1 HW
- Deserializer EVkit (Coax) for SOP2 HW
- Fakra Cable from Silver Box to EVkit
- oLDI to HDMI Converter
- Micro USB Cable from EVkit to Test PC

## Software

### GMSL Software

Can be downloaded from: [Software Download | Analog Devices](https://www.analog.com/en/software/gmsl-serdes-gui/index.html)

## Steps to Configure EVkit

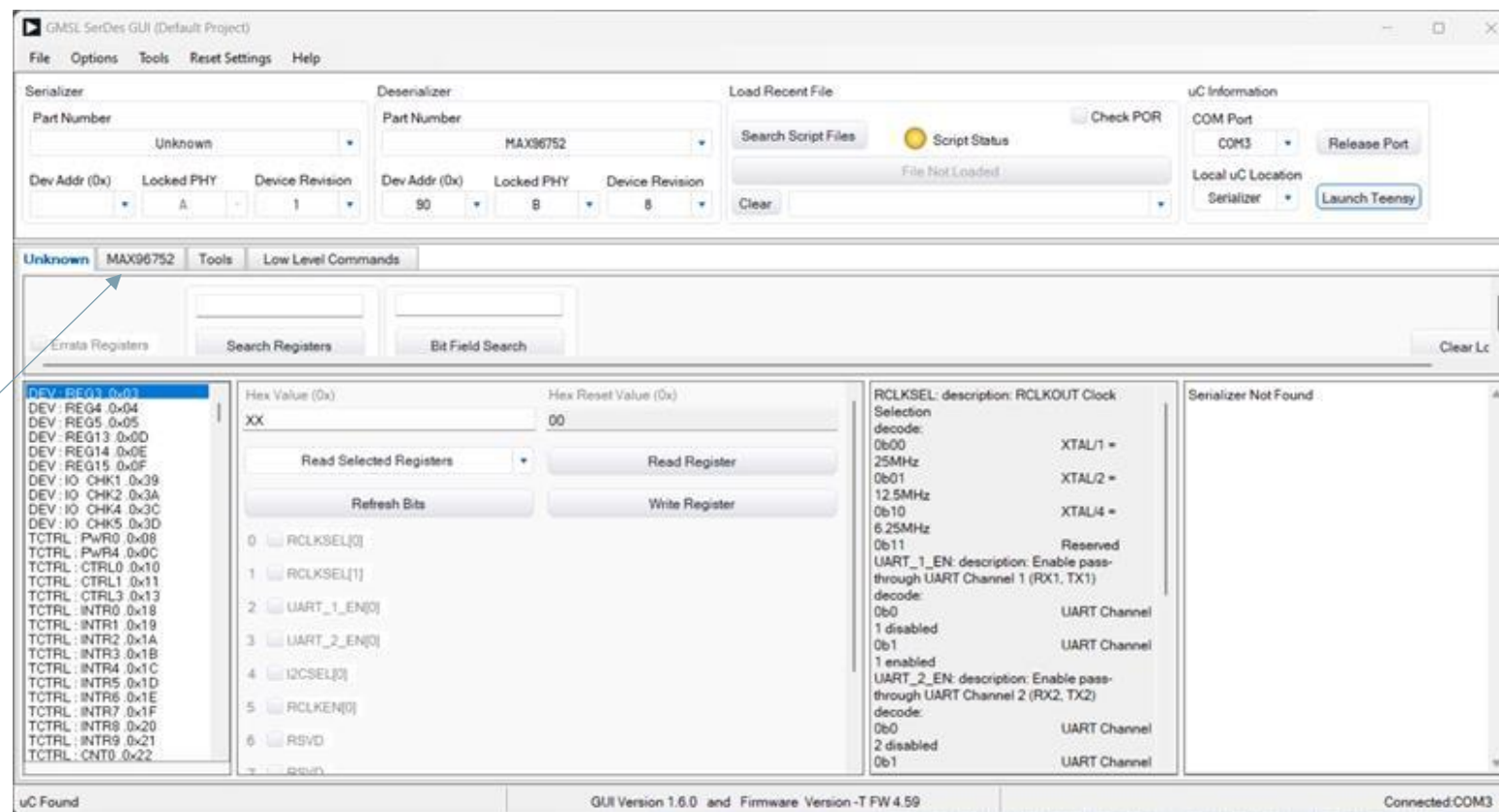
### 1. Start the GMSL Software

Ensure Sw Version



Connect the Evkit to SilverBox after removing Display from Silver Box  
After Opening the GMSL Software the below window will be published

Deserializer Detected  
successfully



# Search for register “0x1CE”

Serializer

Part Number

Unknown

Dev Addr (0x)

Locked PHY

Device Revision

Deserializer

Part Number

MAX96752

Dev Addr (0x)

Locked PHY

Device Revision

Load Recent File

Search Script Files

Script Status

Check POR

File Not Loaded

Clear

uC Information

COM Port

COM3

Release Port

Local uC Location

Serializer

Launch Teensy

Unknown

MAX96752

Tools

Low Level Commands

Errata Registers

1ce

Search Registers

Bit Field Search

Reset All

Reset Oneshot

Clear Lc

VRX: CROSS 5.0x1B5

VRX: CROSS 6.0x1B6

VRX: CROSS 7.0x1B7

VRX: CROSS 8.0x1B8

VRX: CROSS 9.0x1B9

VRX: CROSS 10.0x1BA

VRX: CROSS 11.0x1BB

VRX: CROSS 12.0x1BC

VRX: CROSS 13.0x1BD

VRX: CROSS 14.0x1BE

VRX: CROSS 15.0x1BF

VRX: CROSS 16.0x1C0

VRX: CROSS 17.0x1C1

VRX: CROSS 18.0x1C2

VRX: CROSS 19.0x1C3

VRX: CROSS 20.0x1C4

VRX: CROSS 21.0x1C5

VRX: CROSS 22.0x1C6

VRX: CROSS 23.0x1C7

VRX: CROSS 24.0x1C8

VRX: CROSS 25.0x1C9

VRX: CROSS 26.0x1CA

VRX: CROSS 27.0x1CB

VRX: PRBS\_ERR.0x1CC

VRX: OLDI0.0x1CD

VRX: OLDI1.0x1CE

Hex Value (0x)

XX

Read Selected Registers

Refresh Bits

0 ☐ OLDI\_SPL\_POL[0]

1 ☐ OLDI\_SPL\_MODE[0]

2 ☐ OLDI\_SPL\_MODE[1]

3 ☐ OLDI\_SPL\_EN[0]

4 ☐ OLDI\_SWAP\_AB[0]

5 ☐ OLDI\_4TH\_LANE[0]

6 ☐ OLDI\_FORMAT[0]

7 ☐ OLDI\_OUTSEL[0]

Hex Reset Value (0x)

06

Read Register

Write Register

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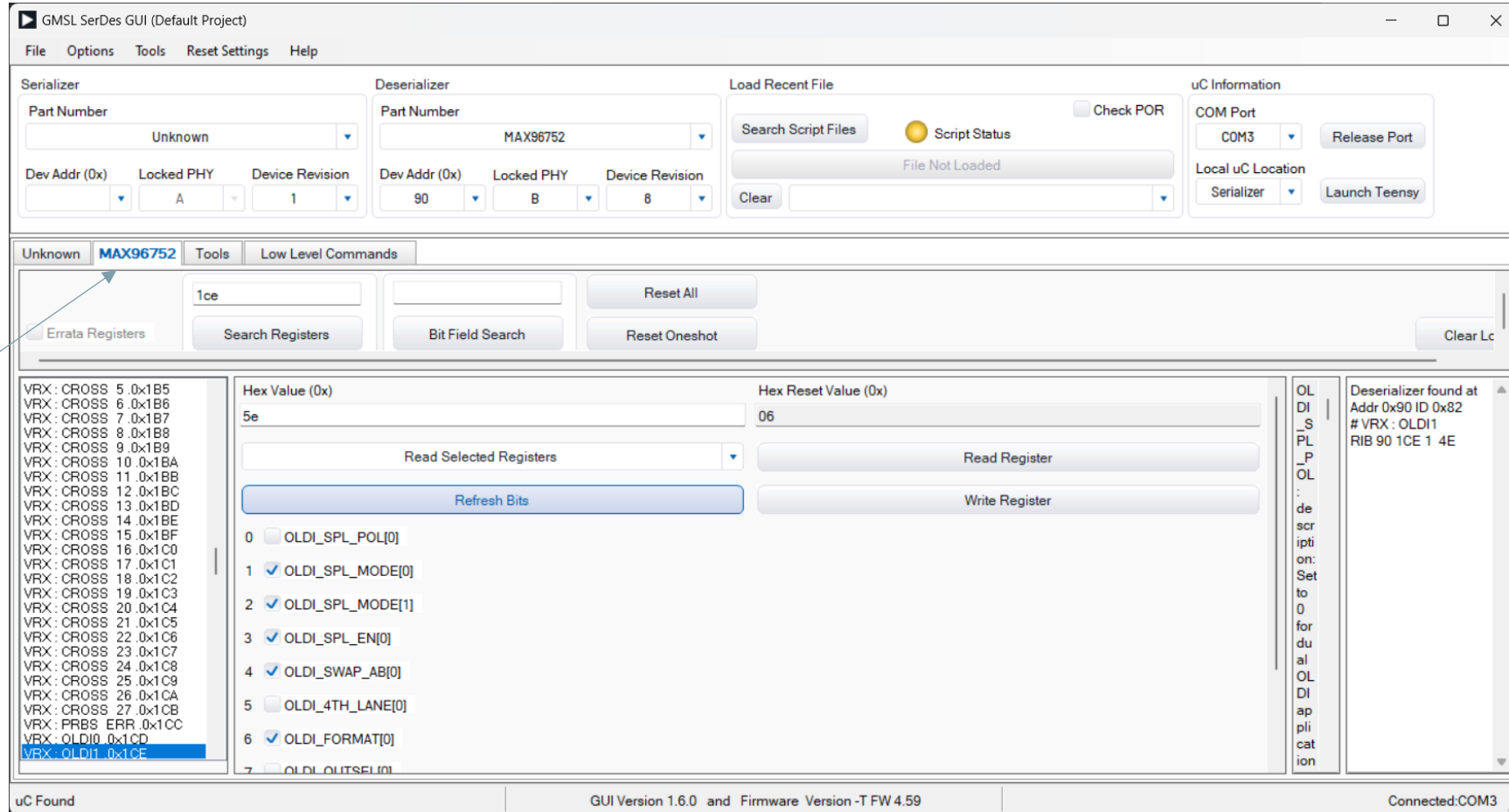
cat

ion

Deserializer found at

Addr 0x90 ID 0x82

- After 1CE selection and write the hex value “5E” in Hex values Row



- Ensure the “Lock” LED Green is Glowing in EV kit after Writing
- After writing ensure the HDMI output connected with monitor

