

E2I SOLUTIONS

SPIDER μ ATE

μ Automatic Test Equipment

“ *DECIDE, COMMIT, SUCCEED* ”

SPIDER M1 μ ATE - Hardware

➤ The **SPIDER M1** tester is a cutting-edge industrial **Automatic Test Equipment**.

NO facilities needed

5 Slots :

- 3 “off the shelf” board
- 2 for specific customer needs

PSU : 3.3V, +5V, 12V, -12V

Board available :

- SPIDER M1
- SPIDER VIS8

Board under Validation :

- SPIDER DPS
- SPIDER VISION PARALLEL
- SPIDER VISION MIPI

Board Roadmap :

- SPIDER FPGA



Small form factor
270x300x140 mm



FrameGrabber
LVCMOS and MIPI
for imager



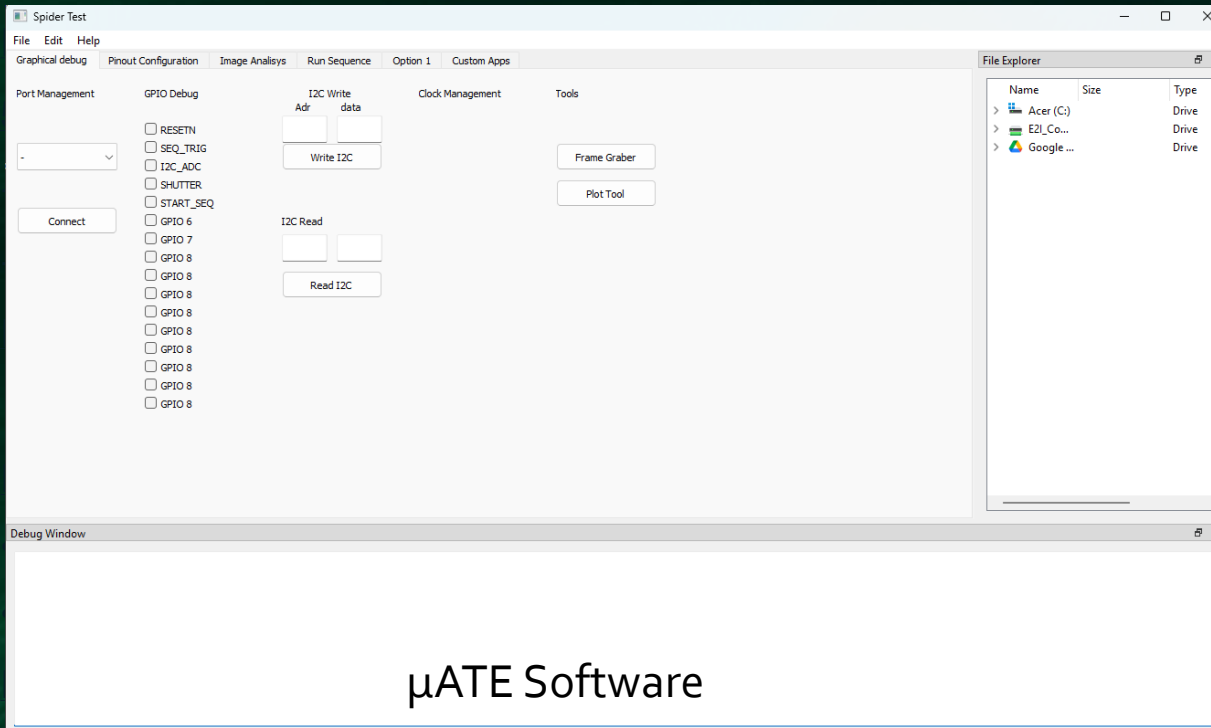
Lowest ATE price



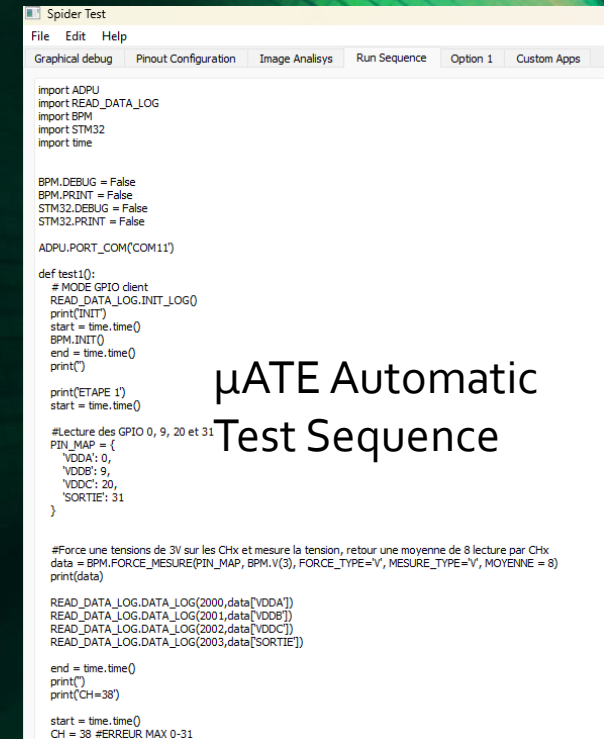
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SPIDER M1 μ ATE - Software

➤ The **SPIDER M1** tester is a cutting-edge industrial **Automatic Test Equipment**.



μ ATE Software



μ ATE Automatic Test Sequence

NUMBER	NAME	LSL	VSL	HWBIN	SWBIN
2000	VDDA_3V	2,98	3,12	4	
2001	VDDB_3V	2,98	3,12	4	
2002	VDDC_3V	2,98	3,12	5	
2003	SORTIE	2,98	3,12	5	
2004	ENTREE_1	-0,1	0,1		5
2005	ENTREE_2	-0,1	0,1		4

μ ATE Test Limits

A	B	C	D	E	F	G	H
NUMBER	NAME	LSL	VALUE	VSL	HWBIN	SWBIN	PASS/FAIL
2000.0	VDDA_3V	2.980	3.108	3.120	4.0	-	PASS
2001.0	VDDB_3V	2.980	3.108	3.120	4.0	-	PASS
2002.0	VDDC_3V	2.980	3.109	3.120	5.0	-	PASS
2003.0	SORTIE	2.980	3.109	3.120	5.0	-	PASS
2004.0	ENTREE_1	-0.100	0.000	0.100	-	5.0	PASS
2005.0	ENTREE_2	-0.100	0.000	0.100	-	4.0	PASS
-	None	-	-	-	-	-	None
-	None	-	-	-	-	-	None
PAT_NUM	PASS/FAIL	HWBIN	SWBIN				
333	PASS						
User	p o						
Date	2025-05-09 11:07:14						

μ ATE Results



Easy new
module integration



Python based



Open-Source
Language
Perpetual License



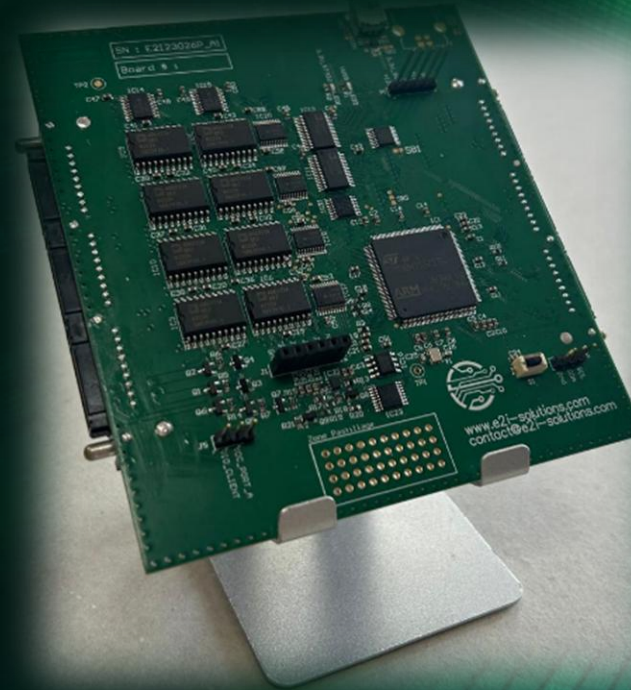
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Confidential

SPIDER M1

➤ The **SPIDER M1 board** is the main board offering generic features to address most of products

- **Protocol aware :**
 - I2C
 - SPI
 - UART
- **32 programmable GPIOs**
- **4 Timers :**
 - Clock generation up to 240MHz
 - Pulse counter
 - Frequency measurement
- **2 ADC :**
 - 16 bits
 - Up to 3.6 MBPS
- **2 DAC :**
 - 12 bits



Continuity and ESD protection measurement capability on all GPIO

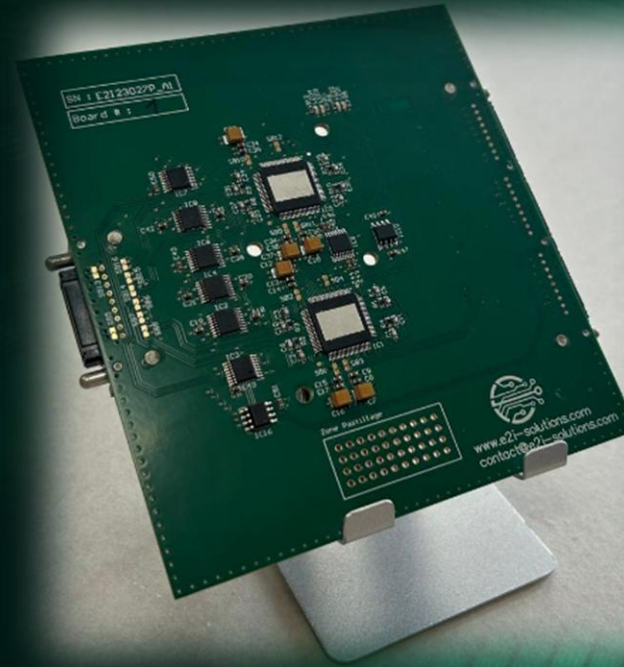


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SPIDER VIS8

➤ The **SPIDER VIS8** is octal parametric measurement unit & Voltage/Current Source.

- **8 x Four quadrant capability :**
FV, FI, FN (high-Z), MV, MI
- **4 Programmable Current Ranges**
 $\pm 5\mu\text{A}$, $\pm 20\mu\text{A}$, $\pm 200\mu\text{A}$ and $\pm 2\text{mA}$
- **2 Current Range up to 80mA**
- **22.5 FV range**
- **Integrated 16-Bit DACs**
Provide Programmable Levels



SPIDER DPS

➤ The **SPIDER DPS** is a dual device power supply.

2 x Device Power Supply:

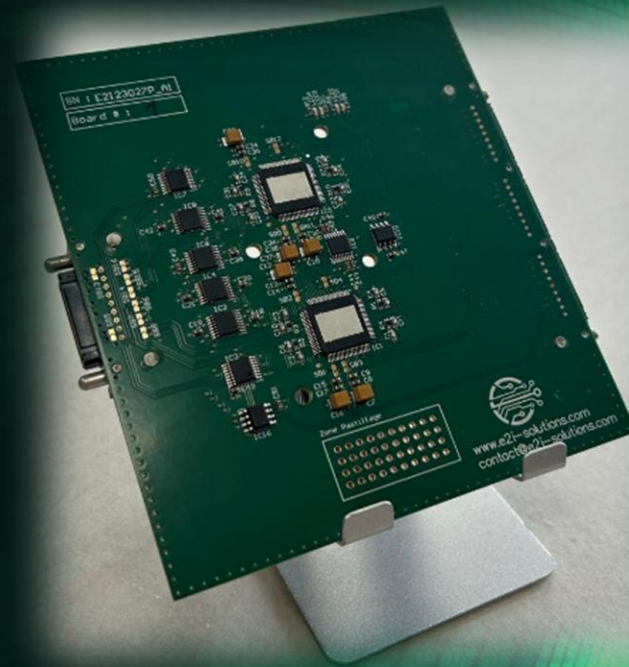
FV, MI, MV, FNMV functions

Current Ranges

$\pm 25 \text{ mA}$, $\pm 500 \text{ mA}$, $\pm 1.2 \text{ A}$

Integrated 16-Bit DACs

Provide Programmable Level



SPIDER VISION PARALLEL

➤ The **SPIDER VISION** board is dedicated for imager sensor or module.

Input :

Up to 32-bits

3 Synchro : Sync , Vsync , PSYNC

VCC IO programmable :

1.2V to 3.6V

Output :

USB-UVC



Continuity and ESD protection measurement capability on all pins



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SPIDER VISION MIPI

➤ The **SPIDER VISION** board is dedicated for imager sensor or module.

Input :

MIPI-CSI2

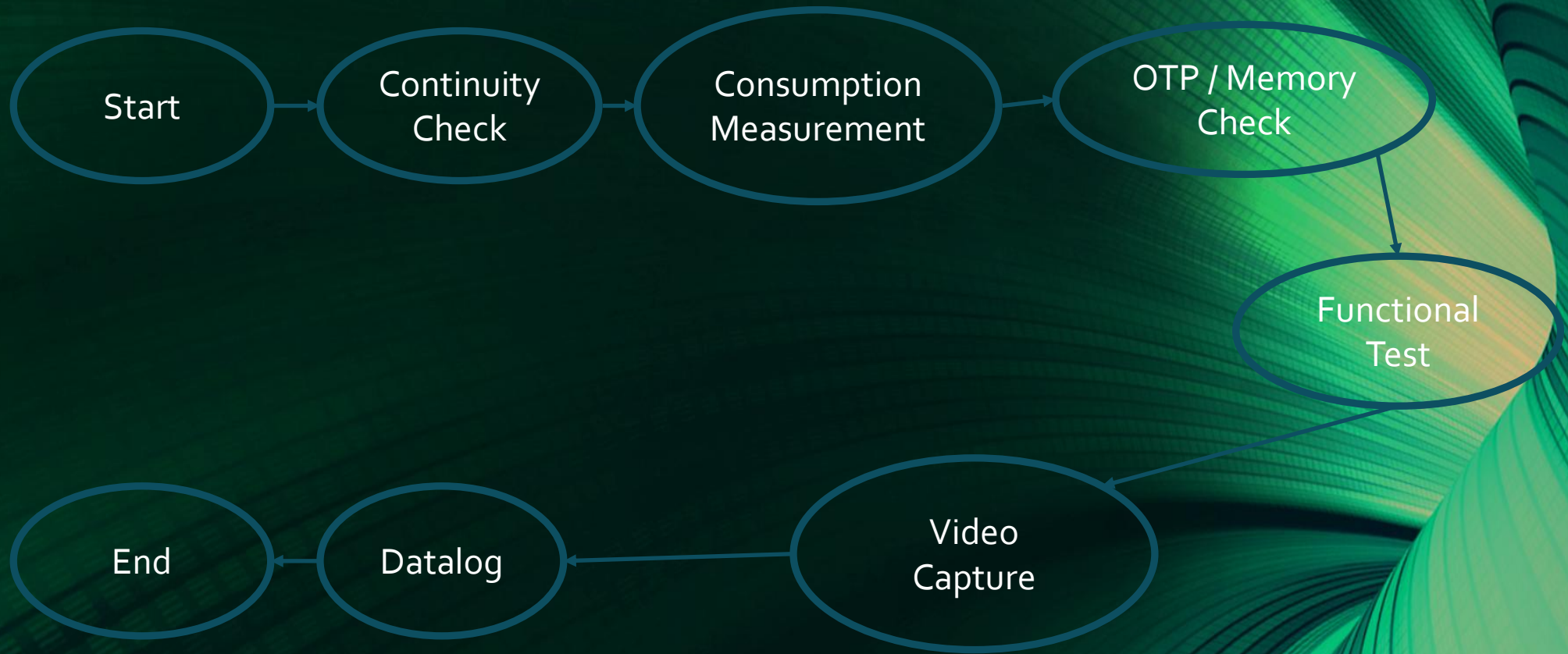
1 to 4 lanes

Output :

USB-UVC



➤ Production TEST : Test Flow Example



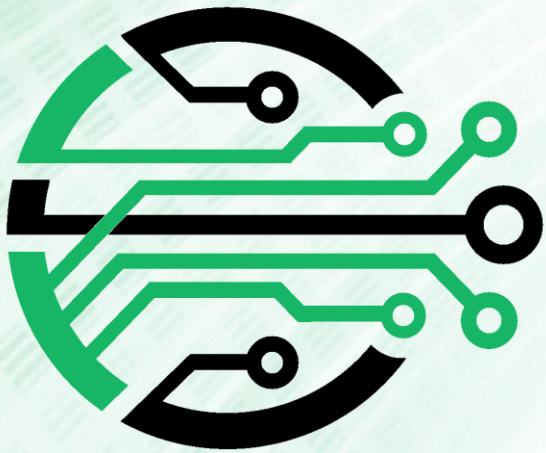
➤ We can also manage :

- Daughter Board : Design & validation
- Interface development :
 - GPIB Command (Prober Interface)
 - Full production Test Sequence
- MES interface
- Equipment Hook-up , MEX et MEP.
- Complete TestBench development

Your industrial Partner...



...FOR YOUR SUCCESS.



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