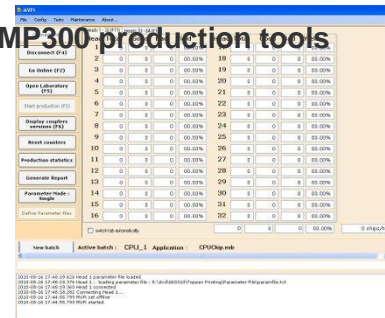


## MVPI supervision software

An operator friendly production machine interface, to drive the MP300 production tools

- ◆ Operator friendly production machine supervision software
- ◆ Easily customisable to fit any machine
- ◆ High performance achieved thanks to its well structured architecture
- ◆



## OVERVIEW :

The main features of the MVPI software are :

- Synchronisation between the execution of test programs within the MP300 and the state of the machine
- Ease of use
- Simplicity and stability
- Complete control of the link with the MP300
- Adaptability to any production machine
- Possibility to interface with an external HSM (Hardware Security Modules)
- Presence of an offline mode, that allows to run test program without interfacing the machine

This piece of software is designed to run inside production machines integrating MP300 production tools.

## SPECIFICATIONS :

### Technical description

Number of couplers supported	32
Test program language	C language (preferred compiler : Windriver 4.4b)
Available counters for the whole test system	Total chips produced Good chips Bad chips Yield Throughput
Available counters for each test head	Total chips produced Good chips Bad chips Yield Current testing time Average testing time

Supported interfaces to production machine	TCP/IP RS 232 GPIB Other interfaces can be implemented on demand
Tasks possible	Electrical testing Pre-personalisation OS loading Personalisation
Access to data server done through :	TCP/IP RS 232 Data bases (MS SQL server, MySql, Oracle, ...) Data file
Tests can be run using the following patterns	All in parallel In sequence Using checkerboard patterns
Logfile generation	Can be enabled or disabled Content is defined inside test application

## SOFTWARES :

MVPi is able to handle up to 32 test heads at the same time, but upgrades are easily possible.



Head	Time	Result	Speed	100%	Result	Speed		
1	11	22	C	100 00%	100	0	1	100 00%
2	11	22	C	100 00%	100	0	1	100 00%
3	11	22	C	100 00%	100	0	1	100 00%
4	11	22	C	100 00%	100	0	1	100 00%
5	11	22	C	100 00%	100	0	1	100 00%
6	11	22	C	100 00%	100	0	1	100 00%
7	11	22	C	100 00%	100	0	1	100 00%
8	11	22	C	100 00%	100	0	1	100 00%
9	11	22	C	100 00%	100	0	1	100 00%
10	11	22	C	100 00%	100	0	1	100 00%
11	11	22	C	100 00%	100	0	1	100 00%
12	11	22	C	100 00%	100	0	1	100 00%
13	11	22	C	100 00%	100	0	1	100 00%
14	11	22	C	100 00%	100	0	1	100 00%
15	11	22	C	100 00%	100	0	1	100 00%
16	11	22	C	100 00%	100	0	1	100 00%

Statistics are available, either separated between all test heads, or displayed for the whole system



Head	Time	Result	Speed
217 (Carte mute)	4	100 00%	

More statistics are available, showing the current test time, as well as the average one.

Details about production						
	Total	Good	Bad	Test time	Avg. test time	Test result
1	319	311	8	515	513	ATR : Card mute!!
2	319	311	8	515	513	ATR : Card mute!!
3	319	311	8	516	514	ATR : Card mute!!
4	319	311	8	515	512	ATR : Card mute!!
5	319	311	8	516	514	ATR : Card mute!!
6	319	311	8	516	513	ATR : Card mute!!
7	319	311	8	516	513	ATR : Card mute!!
8	319	311	8	516	513	ATR : Card mute!!
9						
10						

As smartcards are being produced, logfiles are also generated, that allow to keep track of the produced components. The content of this logfile is controlled by the user.

