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Test Plan for Automotive Electronic Circuit Board for Company L

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广东派捷智能装备有限公司
深圳市派捷电子科技有限公司

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1.1 Introduction & Test Item

Original test items:

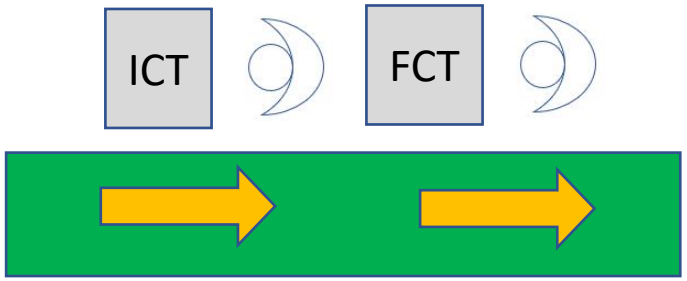
1. ICT test
2. FCT test，power the DUT and measure the voltage at key point

Test method:

ICT station for ICT testing.

After the ICT test is OK, flow into FCT for FCT test.

Picture of DUT

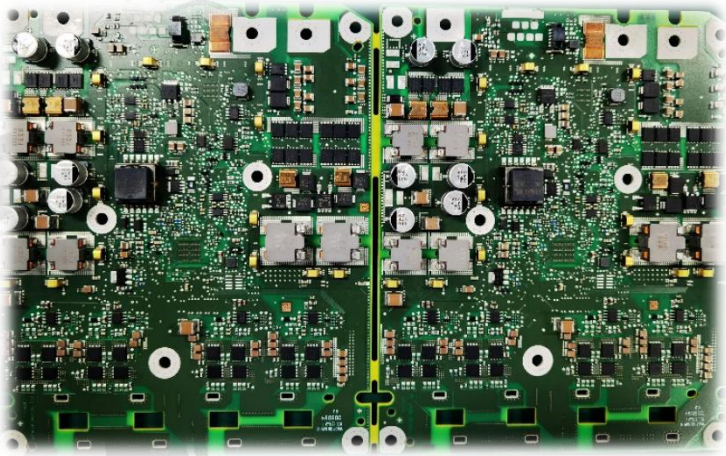


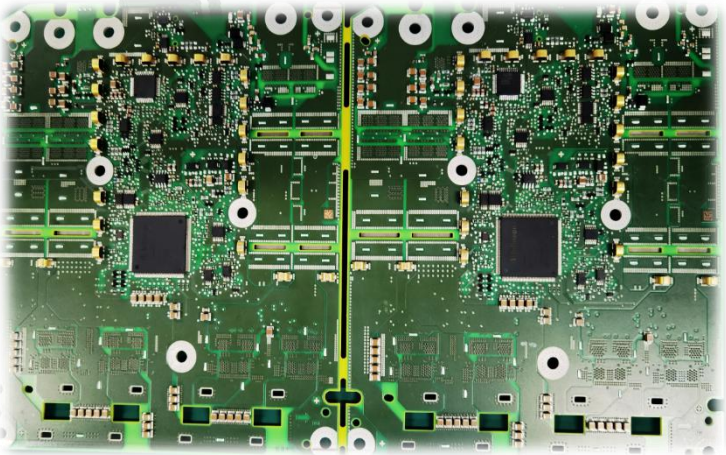
Original test flow chart

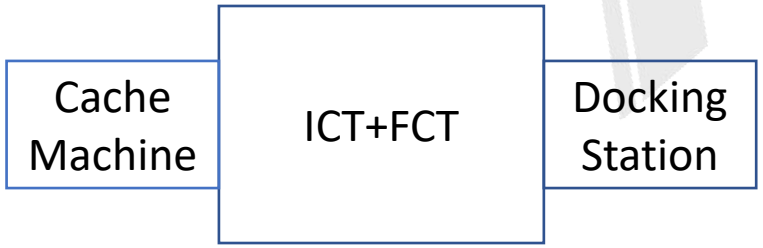
1.2 Introduction & Test Item

Test requirements:

1. Introduce automated production lines to save labor costs.
2. Scan the barcode before the test, and bind the barcode to the test result to facilitate quality traceability.
3. ICT and FCT are completed on one equipment, saving equipment cost and space.

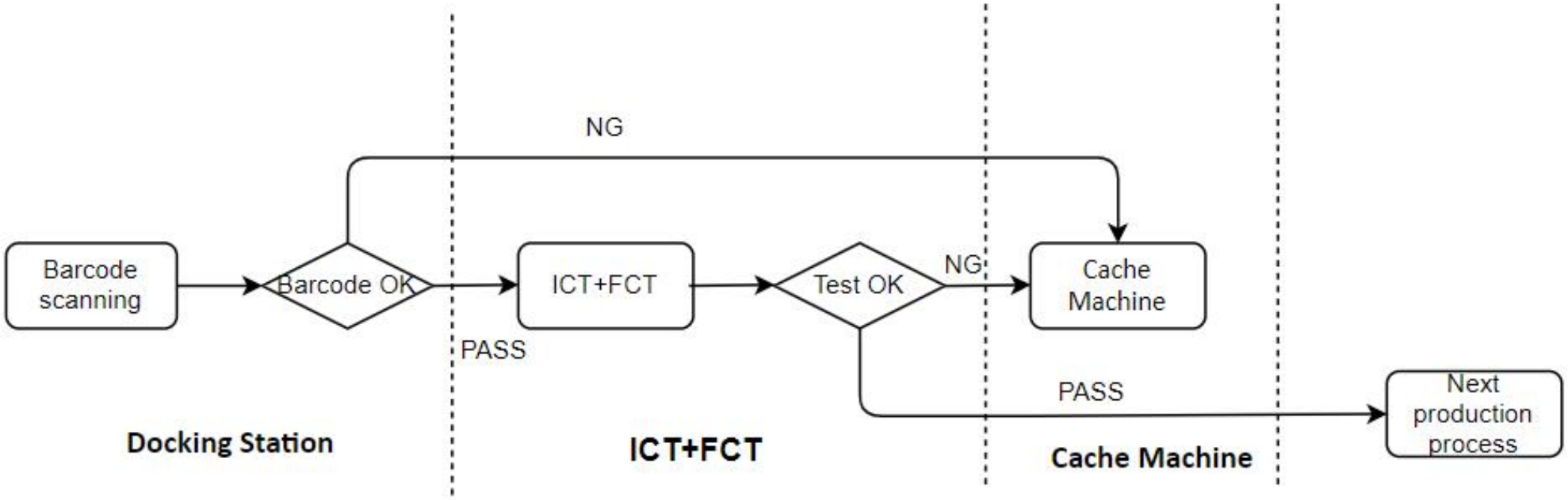






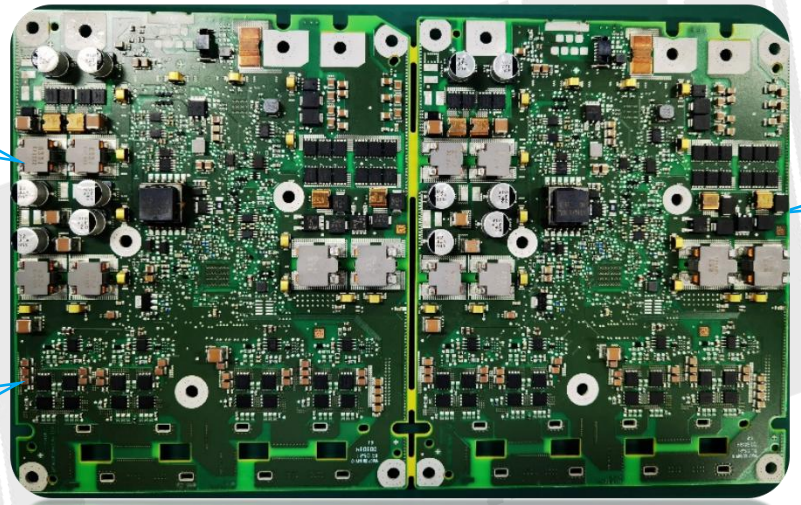
2.1 Test Plan

The test process is shown in the figure below:



2. 2 Test Plan

ATM for ICT

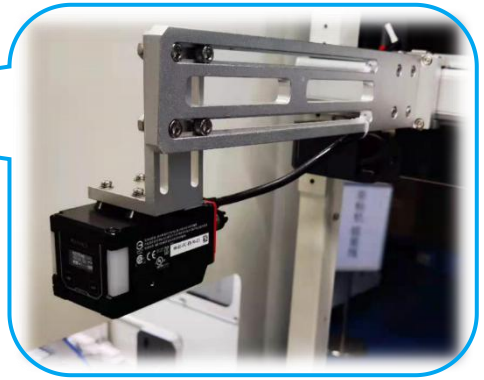


DTM for FCT

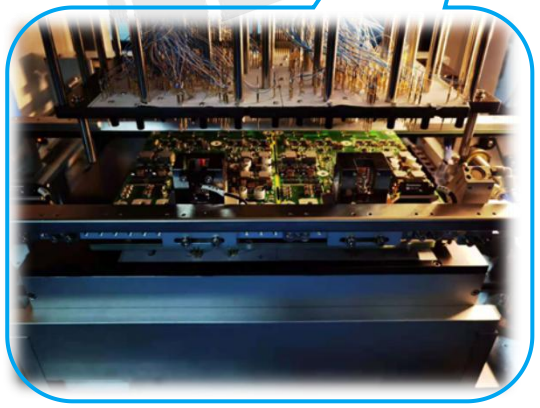
SR-1000 for barcode scanning

3.1 Test System

Cache Machine



SR-1000 Barcode Reader



Fixture

3.2 Test System

ICT Test | Comp Edit | SPG Edit | IC Edit | Skip Edit | Function Edit

STEP	BX	LC	Flag	Device Name	STDval	ACTval	+%	-%	MD	RG	TM	HiP	LoP	G-1	G-2	G-3	G-4	G-5	TestVal	Dev%	Cell
338	B1	A1		R9408		10	15%	15%	CC	+0	0	308	64	0	0	0	0	0	10.86	8.6%	P2
339	B1	A1		R9409		10KO	15%	15%	CV	+0	0	107	271	0	0	0	0	0	9.990	-0.100%	T0
340	B1	A1		R9410	9KO	10KO	15%	15%	CV	+0	0	107	34	323	323	0	0	0	9.061	0.678%	T0
341	B1	A1		R9411	9KO	10KO	15%	15%	CV	+0	0	34	108	99	109	0	0	0	9.142	1.58%	T0
342	B1	A1		R9461		10KO	15%	15%	CV	+0	0	108	109	0	0	0	0	0	9.941	-0.59%	T0
343	B1	A3		R9501		10KO	15%	15%	CV	+0	0	34	251	253	0	0	0	0	10.04	0.4%	T0
344	B1	A3		R9502		10KO	15%	15%	CV	+0	0	34	352	350	0	0	0	0	10.04	0.4%	T0
345	B1	A3		R9503		10KO	15%	15%	CV	+0	0	34	378	380	0	0	0	0	10.09	0.9%	T0
346	B1	A3		R9504		10KO	15%	15%	CV	+0	0	34	239	237	0	0	0	0	10.04	0.4%	T0
347	B1	A3		R9505		10KO	15%	15%	CV	+0	0	34	250	248	0	0	0	0	10.05	0.5%	T0
348	B1	A3		R9506		10KO	15%	15%	CV	+0	0	34	353	355	0	0	0	0	10.09	0.9%	T0
349	B1	A3		R9507		10KO	15%	15%	CV	+0	0	34	377	381	0	0	0	0	10.04	0.4%	T0
350	B1	A3		R9508		10KO	15%	15%	CV	+0	0	34	225	227	0	0	0	0	9.990	-0.100%	T0
351	B1	A3		R9509		1KO	15%	15%	CV	+0	0	248	249	0	0	0	0	0	1.003	0.3%	T0

ICT Software Interface

ICT Test | Comp Edit | SPG Edit | IC Edit | Skip Edit | Function Edit

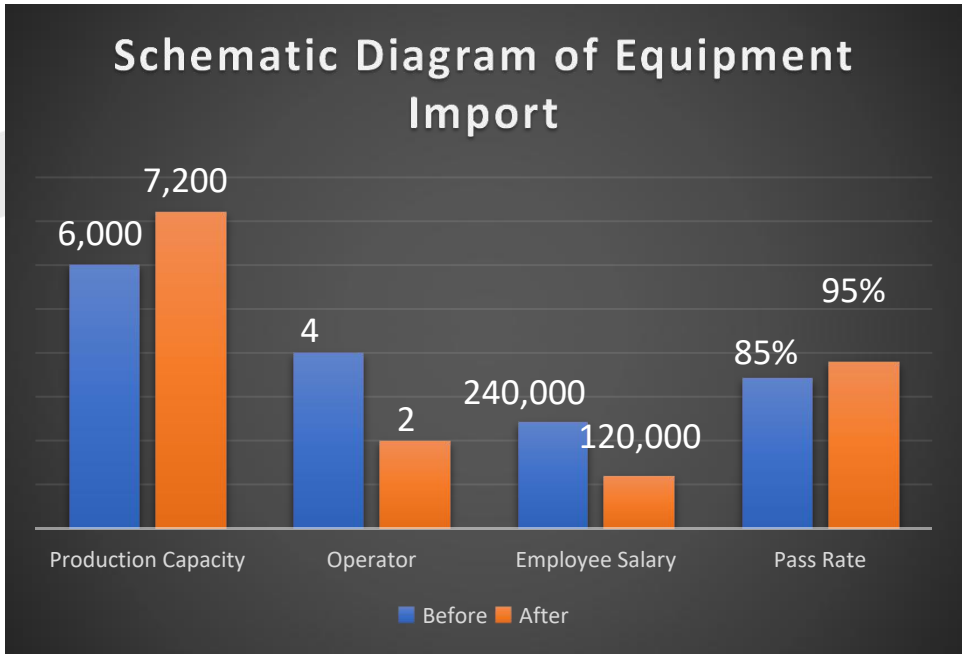
STEP	BX	Description	Module	Type	Function	Delay	Test	Dev%
1	B1	B1_POWER_ON_CO	Power module	configure	XV1	10	0.000	0.0%
2	B1	B1_POWER_ON_CO	Power module	power on	XV1	200	14.09	2.12%
3	B1	B1_POWER_ON_CO	Power module	power on	XV1	200	14.09	2.1%
4	B1	B1_POWER_ON_CO	Power module	voltage check	XV1	10	14.11	0.786%
5	B1	B1_POWER_ON_CO	Power module	voltage check	XV1	10	14.14	1%
6	B1	B1_POWER_ON	Digital module	GPIO	write	10	1.000	0.0%
7	B1	B1_POWER_ON	Digital module	GPIO	write	10	1.000	0.0%
8	B1	B1_P0605_VOL_MEA	Analog module	voltage measure	single end	100	14.11	0.786%
9	B1	B1_P7109_VOL_MEA	Analog module	voltage measure	single end	10	14.16	1.14%
10	B1	B1_P5005_VOL_MEA	Analog module	voltage measure	single end	30	1.316	1.23%
11	B1	B1_P5064_VOL_MEA	Analog module	voltage measure	single end	30	3.276	-0.727%
12	B1	B1_P5082_VOL_MEA	Analog module	voltage measure	single end	30	2.534	1.36%
13	B1	B1_P5027_VOL_MEA	Analog module	voltage measure	single end	30	2.500	0.0%
14	B1	B1_P0639_VOL_MEA	Analog module	voltage measure	single end	300	3.657	-26.9%
15	B1	B1_POWER_OFF	Power module	power off	XV1	0	0.000	0.0%
16	B1	B1_POWER_OFF	Power module	power off	XV1	0	0.000	0.0%

Type: voltage measure
Function: single end
StdVal: 14
+%: 10
-%: 10
Delay: 100
A: 197
B: 34
G:
Mode:
Gpio:
GpioOut:
FETVol:

FCT Software Interface

4. Summary

NO.	Item	Before	After	Unit
1	Production Capacity	6,000	7,200	PCS/Day
2	Operator	4	2	person
3	Employee Salary	240,000	120,000	Yuan/Year (5000/person/month)
4	Pass Rate	85%	95%	------



Summary: After the equipment was introduced, the production capacity was increased by 20%, and the number of operators was reduced by 50%. Employees' salary expenses have been reduced by RMB 120,000 per year, and the pass-through rate has increased by 10% .

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