

PCB/PCBA製程簡介

One Stop Total Solution Provider!

品宥國際/格新電子

2018

PCB Layout及製程能力

PCB Layout: OrCAD & PADS

- EMI/EMC設計對策
- 硬板, 軟板及HDI板
- 設計層別 1~22 Layer
- 網通產品, LED產品, 無線產品, 攝影機產品, 工業用電腦主機板, 及一般消費型產品

PCB/FPCB製程能力

項目	PCB 硬板	FPCB 軟板
層別	1~22L	1~5L
最小機鑽	0.15mm	0.15mm
最小雷鑽	0.10mm	0.10mm
最小線寬距	0.08mm	0.05mm
最小板厚	0.2mm	0.1mm
最大板厚	6.0mm	0.4mm
內層銅厚	6.0oz	2.0oz
外層銅厚	6.0oz	2.0oz
電鍍縱橫比	1:10	7.5~15um
最大出貨尺寸	1400x600mm	250x500mm
HDI製程	3+N+3	1+N+1
表面處理	化金 1~5u"	電鍍金
	化銀 5~10u"	化金1~3u"
	OSP	OSP
	化錫 30~40u"	N/A
	無鉛噴錫	N/A
	有鉛噴錫	N/A
板材使用	FR4 Tg140~Tg200	PI/PET
	鋁基板/銅基板	N/A

主要生產產品

LCD PANEL系列:LCD CONTROL BOARD(VGA), LCD A/D BOARD
(TV AV SV VGA)INVERTER(單. 雙. 4. 6. 8. 燈管)

LED, 背光模組

電腦系列:VGA, PCMCIA卡, 網路卡, 掃描器, 數據機, USB3.0系列...等。

通訊系列:CCD CAMERA, 大哥大充電器板HAND FREE, 衛星定位器...等。

節能環保:太陽能電路板, ADAPTOR, 陶磁電路板, LED日光燈, LED燈泡...等。

工業電腦:IPC主板, Back plan, 各式小卡...等

SMT、DIP全製程

廠牌名稱	台數
SMT生產線	4條
I-PULS TECHNICS M20 含AUTO TRAY	1
I-PULS TECHNICS M20 含點紅膠設備	1
I-PULS TECHNICS M20 含AUTO TRAY+點紅膠設備	1
I-PULS TECHNICS M1 PLUS含AUTO TRAY	2
I-PULS TECHNICS M1 PLUS	2
I-PULS TECHNICS M6EX	1
I-PULS TECHNICS M6EX含AUTO TRAY	1
HITACHI ΣG5 高速機	1
無鉛熱風迴焊爐(皇迪HD-LF HACRF)氮氣2台	3
送板機	5
全自動印刷機TSP-550 /EKRA SERIO 4000	3
半自動印制機	4
ICT測試機	1
AOI (SAKI)自動視覺檢查機	3
無鉛雙波錫爐(皇迪 HD-LF310SIWD)	2
超音波塑熔接機	1
燒機室(BURN IN-ROOM)	1
錫膏測厚儀 Z Check 600	1
BGA Rework Station Model 936USA	1

SMT生產線每日產能

3條中速泛用機 及 1條高速泛用機

生產線	機型	機台數	每日產能(US C/R計)
LINE1	IPULS M20+M6EX*2	3	860000PCS/20H
LINE2	IPULS M1PLUS*3	3	740000PCS/20H
LINE3	HITACHI Σ G5+M20	2	1200000PCS/20H
LINE4	IPULS M1PLUS+M20	1	480000PCS/20H
每日合計 3,280,000 PCS C/R			
精準度：CHIP +/-0.040mm / IC +/-0.025mm			

製程能力

PCB最大尺寸長*寬1400mm*450mm

適用零件

生產線別	零件別
LINE1	C/R 01005以上(含)QFP 0.3跳距BGA CSP
LINE2	C/R 0201以上(含)QFP 0.3跳距BGA CSP
LINE3	C/R 01005以上(含)QFP 0.3跳距BGA CSP
LINE4	C/R 0201以上(含)QFP 0.3跳距 BGA CSP

SMT生產設備

全自動印刷機



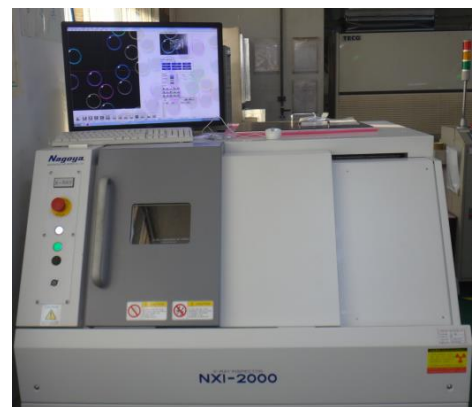
I-PULS M20



熱風迴焊爐



X-RAY



HITACHI Σ G5 高速機



AOI



DIP 生產線每日產能

生產線設備一覽表

1. 無鉛插件線長9米

2-無鉛插件線長6米

2. 後段修補線長15米

3自動雙波錫爐皇迪HD-LF310SIWD
(附噴霧式免洗及熱風預熱)*2台

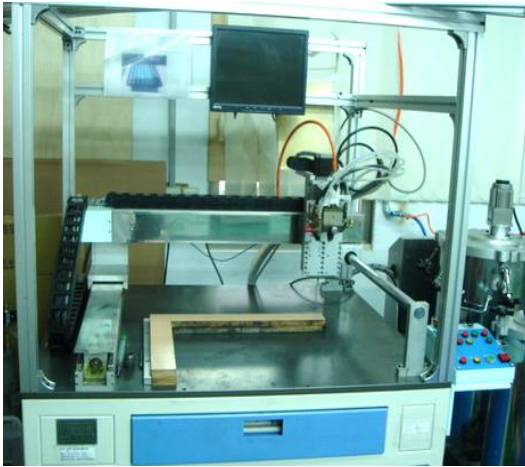
每日合計產能:100000PCS



燒機產能

機型	台車數	台車產能	每班產能
INVERTER 單PORT	7	290	2030
INVERTER 雙PORT	7	145	1015
120公分 日光燈管	22	70	1500支

灌膠機



自動點膠機



Model BGA 936USB



超音波



測試設備

廠 牌	型 號	數量
德律 (ICT測試機)	TR518F	1
動態測試電腦	WIN 7	12
FLUKE (INVERTER測試機)	FLUKE 45	8
FLUKE (LCD A/D BOARD TV測試用)	FLUKE 54200	1
ASTRO (LCD CONTROL BOARD)	ASTRO 3150	5
ASTRO (LCD A/D BOARD DVI)	VG 828H	1
ALITRONIKA (DVB-T)	AT2780PCI	1

德律 (ICT測試機)



FLUKE 54200

VG 828H



ISO 9001:2008 證書



Certificate of Registration

This certificate has been awarded to

Gershin Electronics Ltd.

6F-9, No. 504, Yuan Shan Rd., Chung Ho Dist., New Taipei City, 235, Taiwan
(R.O.C.)

in recognition of the organization's Quality Management System which complies with

ISO 9001:2008

The scope of activities covered by this certificate is defined below

Provision of SMT and DIP Processes. (Excludes Product Design Under Clause 7.3)

Certificate Number:	Date of Issue: (Original)	Date of Issue:
78127/AA/0001/SM/En	11 November 2016	11 November 2016
Issue No:	Expiry Date:	
1	14 September 2018	

Issued by:

On behalf of the Schemes Manager



ISO/TS 16949 : 2009 證書



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6F-9, No. 504, Yuan Shan Rd., Chung Ho Dist., New Taipei City, 235, Taiwan
(R.O.C.)

In recognition of the organization's Quality Management System which complies with

ISO/TS 16949:2009

The scope of activities covered by this certificate is defined below

Provision of SMT and DIP Processes. (Excludes Product Design Under Clause 7.3)

Certificate Number: Date of Issue of Certification Cycle:

78127/A/0001/SM/En

11 November 2016

Issue No:

Expiry Date:

IATF No:

1

14 September 2018

0251837

Issued by:

A handwritten signature in black ink.

On behalf of the Schemes Manager



ISO 14001:2004 SGS證書

SGS

Certificate TW11/11087

The management system of

GERSHIN ELECTRONIC CO., LTD.

6F-9, NO. 504, YUAN SHAN RD., CHUNG HO DIST.,
NEW TAIPEI CITY 235, TAIWAN, R.O.C.

has been assessed and certified as meeting the requirements of

ISO 14001:2004

For the following activities

Provision of SMT and DIP services for electronic products.

This certificate is valid from 14 December 2014 until 14 December 2017 and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 12 December 2017
Issue 2. Certified since 14 December 2011

Authorised by



UKAS
MANAGEMENT
SYSTEMS
0005

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