

Contents

Introduction Why Point to Translate instead of Phonetic? Using the Guide About Technical Chinese What's in the Market (And What's Not) Pricing the Market and Haggling Is it Fake? Hours & When to Go Internet & Helpful Apps Tipping Weather & Dressing	9 10 11 12 14 15 18 19 20
Point-to-Translate Guide: Components	23
Point-to-Translate Guide: Tools & Tooling	45
Point-to-Translate Guide: Sealing the Deal	55
Point-to-Translate Guide: Getting Around	67
Getting To Shenzhen, and Back Again Visas Getting to the Border Which Border Crossing to Use? Time-Saving Tips for Crossing the Border China Customs	83 84 85 87 90 91
Maps	95
Acknowledgments	123







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Introduction









Introduction

Hello! This book is designed to help non-Mandarin speakers navigate the sprawling electronics markets of Shenzhen. The markets are locally referred to as the Hua Qiang Bei (HQB) markets, after the road that runs through the heart of the market

The concept behind this book is to provide a "point-to-translate" interaction that is structured according to a typical transaction in the market:

- 1. Specifying components
- 2. Specifying quantity and packaging
- 3. Payment and delivery
- 4. Remembering the vendor's location

The book also includes sections on what to expect, basic survival, and getting around. It does **not** cover topics such as eating, drinking, local attractions, places to stay, or making friends with the locals, as most basic travel guides for the area already provide adequate coverage of these topics.

Why Point to Translate instead of Phonetic?

The standard phonetic system for transcribing Mandarin is pinyin. However, pronouncing pinyin is very tricky. Consider the phrase, "I'm eating a goose." The pinyin transcription is "wŏ chī é", but the pronunciation is closer to "whua chee uh" - and that doesn't even consider the complication of tonality. Thus, a verbal phrase-book style translation is not effective without at least a few hours of pinyin pronunciation training.

Fortunately, written Chinese is standardized, even across







10 The Essential Guide to Electronics in Shenzhen

China's hundreds of regional dialects. Therefore, pointing at written translations is effective at communicating with anyone in China, even to people who speak a dialect other than Mandarin.

Using the Guide

The book is designed around enabling fast real-time interaction with locals. Translations are organized by component type or scenario, and the spiral binding allows the book to be easily left open to that page, so both parties can view the bilingual phrases with ease. The binding also allows the book to accommodate the extra thickness of business cards, which may be placed in the included pouches for quick access. The pouches are interleaved among several copies of a market map, allowing business cards (which are primarily printed in Chinese) to be easily matched with map annotations. This simplifies the problem of remembering a vendor's location for repeat business.

It's generally recommended to bring printed specification drawings to the market, especially when sourcing switches, connectors, and other components with complex or arbitrary dimensions. While the vendors cannot speak English, most can read enough English characters to interpret a mechanical drawing. Each plastic business card holder sheet also has a larger pouch meant for storing folded up specification drawings.

The tabs along the edge enable fast navigation between sections, and the elastic band on the back functions as a bookmark for quick access. All the pages can be torn out for easy sharing with friends and suppliers.

Finally, this book never runs out of batteries, and is compatible with the most popular API in the market - printed name card, receipts, and drawings. It loads instantly







11

no matter where you are - the Great Firewall of China can't filter it. You actually *own* your copy of this book - unlike software, it's not licensed to you via a click-through EULA that robs you of all your fair use rights. It also can't be infected with malware, has no pop-up ads, and will never upload confidential notes about pricing, sources, and vendors to the cloud. Your data is your data!

About Technical Chinese

As my friend Gavin Zhao once quipped, Chinese is a wonderful language for poetry, but difficult for precise technical communications. Fans of Randall Munroe's XKCD may have seen the "Up-Goer Five" blueprint comic (http://xkcd.com/1133/), where complex technical concepts are explained using only the "ten hundred" most common English words. Considering that 98% of Chinese is covered with only 2,500 characters, and there are only 7,000 "general use" characters, most technical terms in Chinese have to be decomposed into idioms that are reminiscent of the Up-Goer Five scenario.

For example, a resistor is 电阻, which means "electric obstructor", capacitor is 电容, which means "electric container", and a computer is 电脑, which means "electric brain". On the other hand, some concepts have names which are simply phonetic loan words with no meaning, such as the Schottky diode: 效特基二极管. The first three characters are "xiào tè jī" (sounds like "shao tuh gee"), which sound somewhat like "Schottky" but the characters mean "resembles particular basis/foundation"; clearly phonetic but no meaning. The last three characters mean "two-pole tube", which does make some sense. And then there are the pronunciation subtleties, such as 芯片号, "xīn piàn hào" (which means an "IC's part number" (literally "core flat item's number"), which with misplaced accents sounds like 性偏好, "xìng piān hào" which means "sexual"





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Point-to-Translate Guide: Components







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Resistors - 电阻器

Note: SMT case sizes are on page 31.

SPECS 评情	
• •	

tempco 温度系数 wēn dù xì shù	1ppm	Sppm	10ppm	25ppm	50ppm	100ppm
	carbon film	球 tàn mó	metal film	的 新知	jīn shǔ bó	ceramic
composition 成分 chéng fèn	thick film	厚膜 hòn mó	thin film	薄膜	bó mó	wirewound
wattage 功率 gōng lǜ	0.05W	0.1W	0.16W	0.25W	0.5W	W1
tolerance 容差 róng chà	0.1%	0.5%	1%	2%	10%	20%

配。 然) 绕线 rào xiàn surface mount

2W **2W**

随便 (any)

•

what's in stock

有现统的 yǒu xiàn huò de

anything is 0K

什么都可以 shén me dõu kě yǐ

随便 (any) 1000ppm 500ppm

general use

最好的 zuì hǎo de finest

通用的 tōng yòng de

最**便宜的** zuì pián yí de

cheapest

convex

<mark>贴片式</mark> tiē piàn shì

through-hole 插**件式** chā jiàn shì

MOUNTING

concave 四面 āo miàn

OTHER

isolated 配 gé m 电阻器网络,阵列 diàn zǔ qì wǎng luò, zhèn liè resistor network

总线式 zǒng xiàn shì bassed

tū miàn

(



Table of E12 (10%) standard values.

This is provided for engineering reference. When specifying values, write them down. Vendors will understand the prefixes " μ ", "n", and "p".

1.5	2.7	4.7	8.2
1.2	2.2	3.9	6.8
1.0	1.8	3.3	5.6

p (pico) 友[可] pí [kě]	
n [nano] 丝内[诺] nà [nuò]	
[0)

l μ (micrα 篍_i

farad 法拉 ^{fälä}



low ESL 低ESL

低等效串联电阻 (ŒESR)

low ESR

27

guān jiàn miáo shù

Capacitors - 电容器

Note: SMT case sizes are on page 31.

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SPECS	详情

voltag	电压-额	diàn yā-é d
erance	容滞	róng chà
t		_

(0		<u>.</u>
	voltage	电压-额定	diàn vā-é dìng

dielectric	介电材料

≣ر ما

ceramic

温度系数 wēn dù xì shù tempco



2.5V

0.1pF

C0G, NP0 X5R X7R

temp range 工作温度 gōng zuò wēn dù

other terms





函统 táo cí

>4

0.25pF 0.5pF



tantalum

6.37

10 16V 25V

1pF 1% 2%

(

野野







aluminum

完。却

注解:倒置结构







surface mount

through-hole

插**件式** chā jiàn shì

高压(HN)

20% 10%

200

<mark>贴片式</mark> tiē biàn shì

yuán zhuāng zhèng pĭn genuine 原装正品

¦i∃ Ж	
-------	--

molded 模 mó zhì

MOUNTING STYLE 世業 米型

轴向 zhóu xiàng axial

经向 jìng xiàng

radial

圆盘 yuán pán disc

保形涂层 bǎo xíng tú céng dipped



Point-to-Translate Guide: Sealing the Deal





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This sample is almost right, but I need something different. 但是我还有一些不同的要求。 这个样品基本上是我想要的,

Do you have something like this but... 但是..... 你有类似这个的产品吗,

gèng xiǎo yī diǎn? smaller? 更小一点?

gèng dà yī diǎn? 更大一点? bigger?

gèng báo yī diăn? 更溝一点. thinner'

taller?

gèng gāo yī diǎn? faster? 更高一点

gèng zhăng yīdiăn? 更长一点.

更短一点? gèng duǎn yī diǎn? stronger? 更强的?

shorter?

longer?

yèng qiáng de? gèng màn de? slower? 更慢的?

更快的? gèng kuài de?

| 更厚一点? gèng hòu yī diǎn?

更轻**的?** gèng qīng de?

gèng zhòng de?

thicker?

lighter?

heavier? 更重的?

 \bigoplus

with alignment pins?

with through hole pins? 带通孔插脚? dài tông kǒng chả jiǎo?

with surface mount feet?

表面贴片**?** biáo miàn tiệ piàn?

带定位销的? dài dìng wèi xiāo de?

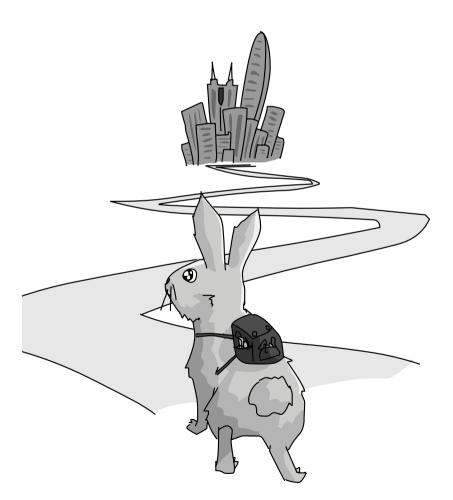
with surface mount signal wires, but through hole mounting feet?

带有表面贴片信号线,但是是直插件? dài yǒu biǎo miàn tiē piàn xìn hào xiàn, dàn shì shì zhí chā jiàn?

用于机器组装的包装方式(如卷状/管状/托盘包装)? yòng yú jī qì zǔ zhuāng de bāo zhuāng fāng shì (rú Juàn zhuāng / guǎn zhuāng / tuō pán bāo zhuāng)? in machine-assembly (reel/tube/tray) packaging?

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Getting To Shenzhen, and **Back Again**









84 The Essential Guide to Electronics in Shenzhen

Visas

Many nationalities need a visa to enter China, including Americans. Don't rely on getting a visa on arrival – I've heard reports of people having to wait days in Hong Kong while their visas are processed. However, the rules are constantly in flux, so check the Internet and mind the date on the article. If the advice is more than a year or two old, question its validity.

The most recent and very significant development for Americans is the availability of 10-year multiple-entry visas to visit China. It's recommended to apply for a 10-year visa even if the intention is to visit just once; it costs almost the same as the shorter-term visas and it's unclear if and when the 10-year visa option will be terminated.

It's also recommended to apply through a visa processing agent instead of directly to the Chinese consulate. Most agents seem to have a special relationship with the consulate that often allow the normally strict requirements for showing itineraries, tickets, and hotel reservations to be bent. The convenience is well worth their nominal markup on the visa cost.

The other important thing to note is that even though the primary purpose for going to China may be to visit markets and factories for "business reasons", that's still technically a "tourist" activity. So apply for a tourist visa, as it's a much easier process than a business visa. A business visa is needed to operate or incorporate a new company in China. Simply inspecting, buying and exporting goods or subcontracting an existing Chinese factory is classified as a tourist type of activity.

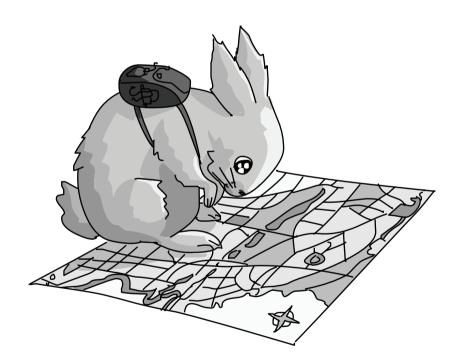








Maps







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Maps of the Hua Qiang District



This section is divided into two parts. The first part is a brief field guide to the market. This guide divides the market into 10 blocks, and touches on the highlights of each block. The second part consists of multiple blank copies of the map. Behind each map is a plastic insert for holding business cards, receipts, datasheets and technical drawings.

Returning to a vendor's stall can be a formidable challenge, given the dearth of English signage. Use the point-to-translate phrases printed on each copy of the map to acquire a business card, and to ask the vendor to mark their stall on the map. This will help you find them again, should you need to buy more products in the future. Once in the correct building, the stalls are numbered using roman numerals and characters; be sure to jot down the stall number if it's not already printed on the business card.

The pages can be torn out for easy sharing with friends and suppliers.



