

## Neuron<sup>®</sup> Chip TMPN3150/3120

2000

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"PORTABLE DEVICE" shall mean any portable device

- (i) complying with ISO standard 7816 width and length dimensions, plus or minus ten (10) millimeters, and with a thickness equal to or less than three (3) millimeters. or
- (ii) Incorporating an object complying with the electrical contact assignments and pattern defined in ISO standard 7816, part2, or
- (iii) with means for establishing connection (with or without contact), the purpose of which is identification of the bearer there of and /or the portable device itself, as well as storage of information and /or history relating to said bearer and /or said portable device, provided the portable device referred to in this (iii) is of pocket size.

This data book is intended for use with the following Toshiba products:

TMPN3120B1AM, TMPN3120E1M, TMPN3120B1AM, TMPN3120E1M, TMPN3120FE3M/U, TMPN3120A20U/M and TMPN3120FE5 are hereinafter called TMPN3120xx, TMPN3150B1AF. Older versions of these parts, including the TMPN3120AM and TMPN3150AF, are not discussed in this book. For information on these first generation parts, contact Toshiba Corporation.

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Usage Guidelines for Echelon Trademarks

Note: These guidelines do not cover usage of the LonWorks® Independent Developer Logo, the trademark LonMark®, the LonMark Logo, the Echelon® Authorized Network Integrator Logo or the Echelon® LonWorks® Integrator Partner Logo. See Section 8 below.

1. ALWAYS USE ECHELON TRADEMARKS IN AN APPROVED FROM.
- Trademarks should be presented in the recommended styles shown below (all caps, upper and lower case, or a combination of large and small caps):

Registered Trademarks

Echelon®	Neuron®
LON®	LonManager®
LonTalk®	3150®
LonBuilder®	LonWorks®
LonUsers®	3120®
NodeBuilder®	LonPoint®
Digital Home®	

Other Trademarks

LonLink™	LONews™
LonSupport™	LonMaker™
LonResponse™	i.LON™

Changes or alterations in the names above are not generally allowed. Any variation must be cleared through Echelon's Advertising and Creative Services Director.

RIGHT	RIGHT
LonWorks®	LonTalk®
WRONG	WRONG
Lonworks®	LONTALK®

**2. ALWAYS USE ECHELON TRADEMARKS IN A MANNER CLEARLY INDICATING THAT THEY ARE TRADEMARKS OWNED BY ECHELON.**

Trademarks should be properly marked to give notice that they are, in fact, trademarks of Echelon Corporation. Registered trademarks should always be used with the federal registration symbol "®", while marks that have not been registered (including marks that are the subject of "pending" applications) should be used with the symbol "™" where the mark initially appears. Use of the registration symbol or "™" must appear with the first usage of the trademark in a document; subsequent occurrences do not require the symbols. When used in a printed document, the symbols should be half the point size of the word and then superscripted half the point size of the word.

A footnote reference to ownership of the trademarks must be used on all products, documentation and advertisements in the following format: "Echelon, LON, LonWorks, LonBuilder, NodeBuilder, LonManager, LonTalk, LonUsers, LonPoint, Neuron, 3120, 3150, the Echelon logo, and the LonUsers logo are trademarks of Echelon Corporation registered in the United States and other countries. LonLink, LonResponse, LonSupport, and LonMaker are trademarks of Echelon Corporation." Where appropriate, a subset of this attribution may be used.

The list of registered and unregistered marks will be updated periodically as pending applications mature to registration, and as such, it is important to determine status of the marks before using either symbol.

Trademarks should not be joined with other terms (by a hyphen, for instance) nor used with unapproved logos, graphics, photos, slogans, numbers, design features or symbols. Trademarks should never be "made plural," never be mixed with other trademarks, and a trademark's spelling should never be altered.

**3. ALWAYS USE ECHELON TRADEMARKS AS ADJECTIVES, NEVER NOUNS, AND THE MARKS SHOULD BE FOLLOWED BY THE APPROPRIATE GENERIC TERMINOLOGY.**

Trademarks are meant to signify the brand or source of the product and should not be used in a manner which suggests that the trademark is the name of the product. Companies that allow their trademarks to be used as nouns risk losing their rights in those trademarks. Classic examples of words that began as trademarks but were lost due to misuse include "aspirin," "escalator" and "cellophane." Because the public came to see these terms as the product names instead of the brand names, trademark rights were forfeited.

The most common mistake is to use the trademark as a noun instead of as an adjective followed by the generic term. Examples:

RIGHT

"LonWorks® networks can control existing home systems."

WRONG

"LonWorks® can control existing home systems."

RIGHT

"The LonTalk® protocol is built into every Neuron@ chip."

WRONG

"LonTalk® is built into every Neuron@."

4. DO NOT IMPLY OR SUGGEST THAT A PRODUCT BASED ON ECHELON'S TECHNOLOGY IS AN ECHELON PRODUCT OR THAT ECHELON SPONSORS THE PRODUCT.

While Echelon understands and appreciates the customer's need to accurately describe the technology incorporated into the product as Echelon technology, the product materials and advertising cannot wrongly imply that the customer's product is an Echelon product, explicitly or implicitly. Care must be taken to clearly distinguish Echelon's products (and trademarks) from the customer's products and marks, as discussed more specifically in these guidelines. Some basic examples are:

RIGHT

"The ACME™ light switch is for use in LonWorks® networks."

WRONG

"The LonWorks® light switch is made by ACME™."

RIGHT

"The ACME™ security system incorporates Echelon Corporation's LonTalk® protocol."

WRONG

"The ACME™ LonTalk® security system incorporates the Echelon protocol."

5. NEVER USE THE TRADEMARK "LON " AS A SEPARATE WORD, EVEN IF USED AS AN ADJECTIVE.

Even though LON is a registered trademark of Echelon Corporation, it should not be used by a customer except as part of Echelon's family of marks, such as LonTalk, LonBuilder, and the like.

6. NEVER USE AN ECHELON TRADEMARK AS PART OF YOUR NAME OR TRADEMARK.

Echelon trademarks may not be used as part of another company’s mark or company name. While Echelon’s marks can be used in explanatory fashion (such as “for use in LonWorks® networks”), the mark cannot be used as part of the company or product name. The only exception to this rule relates specifically to LON, where precise guidelines have been established. The mark LON may be used ONLY if it is incorporated into a composite mark in such a way that (1) the LON portion is not highlighted in any way, including by CAPITAL letters, graphics, or stylizations, and (2) that LON is not used as the beginning letters of the composite word mark, and (3) the LON portion may not be preceded by the letters I or E if the letter forms the beginning of the word.

ACCEPTABLE	UNACCEPTABLE
Avalon	AvaLON
DRESLON	DresLON
brinlon	Lonbrin
alonet	alonet
Relongate	Elongate
	llongate

Also, customers may not personify trademarks or create characters that represent the trademarks. However, the trademarks may be used in taglines in accordance with the guidelines listed above.

7. ALWAYS USE ECHELON LOGOS (WITH WORDS OR WITHOUT) PROPERLY, IN ACCORDANCE WITH THESE GUIDELINES.

Echelon’s logos are company assets just like Echelon’s word marks. These logos must be used in the approved format and should never be modified without prior written approval. The Echelon Logo and Echelon Symbol are approved for use on advertising of products incorporating Echelon technology, provided that the Logo or ‘Symbol is not used in a way that would give the end-user or purchaser a mistaken impression that the product is an Echelon product or is sponsored or approved by Echelon. Echelon will provide camera-ready artwork of the Echelon Logo and Symbol.



Echelon Logo



Echelon Symbol

In general, the registered trademark symbol (®) must be used with every occurrence of the logos. Also, the trademark symbol should be used in the position indicated in these examples

When Echelon symbols and logos are used, they should be included in the footnote reference to ownership of the trademarks in addition to the trademarks symbols used with the first occurrence of the symbol or logo. Depending on which words, symbols, and logos are used, all or a subset of the following may be used: "Echelon, LON, LonWorks, LonBuilder, NodeBuilder, LonManager, LonTalk, LonUsers, LonPoint, Neuron, 3120, 3150, Digital Home, the Echelon logo, and the LonUsers logo are trademarks of Echelon Corporation registered in the United States and other countries. LonLink, LonResponse, LonSupport, i.LON and LonMaker are trademarks of Echelon Corporation."

**Echelon Logo and Accompanying Words**

The Echelon Logo is composed of two main components: The Echelon symbol. This is the graphic element. The registered trademark symbol (®) should appear at the lower right hand corner of the symbol when used by itself such as on products. The Accompanying Word. This is the word Echelon that may at times appear beside the Symbol. This word should accompany every use of the Echelon Logo on packaging, advertising, collateral, and documentation.

**Placement Requirements**

A minimal amount of empty space must be left between the Echelon Logo and any other object such as type, photography, borders, edges, etc. The required area must be 1 / 2x where x = the height of the symbol when it is used by itself.

You may not combine the Logo with any other feature including, but not limited to, other logos, words, graphics, photos, slogans, numbers, design features, or symbols.

Color Treatment. The preferred color treatment for the Echelon Logo is the four color application. This treatment uses the four Echelon colors (PMS320, PMS123, PMS185, PMS402). See the Echelon letterhead to see how these colors are used.

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