

SpectraLink
NetLink Wireless Telephone System
Regulatory Guide

PN 72-1303-00

Draft1

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Introduction

The NetLink 7000 Series Wireless Telephone and the accompanying components are state-of-the-art communication devices that utilizes radio wave technology to send and receive voice transmissions. The handsets are designed to operate like a cell phone. However, the handset utilizes the private telephone system installed in your facility and will not operate outside the area covered by this system.

About This Guide

This guide is meant to provide regulatory information about NetLink components. Additional documents are available for information about the NetLink components.

Registered Model Numbers

This document covers registered handset model:
702X/703X

Registered system controller models: SVP100,
TGA104, TGU104, TGA116, TGU116

Registered charger models: PCS1850, PCD1850,
PCQ1850

Registered Battery Pack models: PBP0850, PBP1300,
PBP1850

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European Union Directives Conformance Statement



Hereby, SpectraLink Corporation declares that the products in this manual are in compliance with:

- EMC Directive 2004/108/EC
- LVD Directive 73/23/EEC; 93/68/EEC
- R&TTE Directive 1999/5/EEC
- Restriction of Hazardous Substances (RoHS) 2002/95/EC
- Waste Electrical and Electronic Equipment (WEEE) 2002/96/EC

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(See)

<http://europa.eu.int/comm/enterprise/rte/tcam5.htm#tcam5>.

NetLink Telephony Gateway

Note concerning the NetLink Telephony Gateway:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



WARNING: Changes or modifications to this equipment not approved by SpectraLink Corporation may cause this equipment to not comply with part 15 of the FCC rules and void the user's authority to operate this equipment.

Note concerning the power adapter

The power adapter must have the capacity to connect to the country AC power mains with the proper AC power plug.

The power adapter shall have an output voltage of 24V DC $\pm 5\%$ with a current rating of at least 1.0 Amp and rated at least 33 watts.

The DC plug shall adhere to the following dimensions 5.5 x 2.1 x 11mm. The plug length shall be 11mm ± 1.0 mm. The barrel outer diameter shall be 5.5mm ± 0.1 mm. The inner barrel diameter shall be 2.1mm ± 0.1 mm and shall be positive in voltage.



TUV Rheinland of North America is a Nationally Recognized Testing Laboratory (NRTL) in the United States and is accredited by the Standards Council of Canada to test and certify products to Canadian National Standards. Clients can demonstrate compliance for both U.S. and Canadian markets through a single mark (cTUVus) on their product(s) which denotes compliance to U.S. and Canadian National Standards.

Note concerning shielded cable:

SpectraLink recommends the use of shielded cable for all external signal connections in order to maintain FCC Part 15 emissions requirements.

FCC Information

The NetLink 150 Telephony Gateway complies with Part 68, FCC Rules

FCC Registration Number IYGUSA-33816-PX-E

Ringer Equivalence 0.3B

SpectraLink Corporation

NetLink Wireless Telephones

Made in the USA

This equipment complies with Part 68 of the FCC Rules. On the back of this equipment is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. If requested, this information must be given to the telephone company.

This equipment uses RJ-21 connectors.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your number is called. In most, but not all, areas, the sum of the RENs of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

If your telephone equipment causes harm to the telephone network, the telephone service may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice isn't practical, you will be notified as soon as possible.

You will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact SpectraLink Corporation for information on obtaining service or repairs.

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303-440-5330

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. There are no user serviceable parts in this equipment.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

Industry Canada (IC) Notice

The Industry Canada (IC) label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational, and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by a user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Notice: The Ringer Equivalence Number (REN) assigned to each terminal device provides as indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices.

REN 0.3B

Approval Numbers:
2128-9760 A

Warranty and Repair Service Center:

SpectraLink Corporation
5755 Central Avenue
Boulder, CO 80301
303-440-5330

SVP Server

Note concerning the NetLink SVP Server:

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Version 2, June 1991

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then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work.

(Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the

Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined

with any other library facilities. This must be distributed under the terms of the Sections above.

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NetLink 7000 Series Wireless Telephones

FCC Information

The NetLink 7000 Series Wireless Telephones are certified as model numbers 702X and 703X.

FCC registration number

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada (IC) Notice

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Certification Number IC:

International Certifications

Canada



CU xxx

European
Union



Norway

Switzerland



Switzerland

United
States



UL 60950

United
States



Part 15, Part 68

Specific Absorption Rate (SAR) Information

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

- ANSI C95.1 (1992) American National Standards Institute
- NCRP - Report 86 (1986) National Council on Radiation Protection and Measurements
- ICNIRP (1996) International Commission on Non-Ionizing Radiation Protection;
- DHWC - Safety Code 6 Department of Health and Welfare Canada

Those standards were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.¹ Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of

¹ In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

<http://www.fcc.gov/oet/fccid> after searching on FCC ID IYG702X or FCC ID IYG703X. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>.

The only authorized headsets that may be utilized with the 702X and the 703X are those obtainable from SpectraLink or its reseller partners.

The measured SAR of the 702X Wireless Telephone

	mW/kG	Head/body	mode
	0.193	Body	802.11b
	0.076	Body	802.11g
	0.393	Body	802.11a
	0.220	Head	802.11b
	0.093	Head	802.11g
	0.399	Head	802.11a

The measured SAR of the 703X Wireless Telephone

	mW/kG	Head/body	mode
	0.164	Body	802.11b
	0.078	Body	802.11g
	0.385	Body	802.11a
	0.207	Head	802.11b
	0.120	Head	802.11g
	0.372	Head	802.11a



Handset Operation Normal Position: Hold the handset as you would any other telephone, with the earpiece to your ear and speak into the microphone. The internal antenna is then positioned properly.



Handset Operation Body-Worn Position: To maintain compliance with RF energy exposure guidelines, if you wear a handset on your body when transmitting, always use the handset with a SpectraLink- supplied accessory as described in the user guide for this handset. SpectraLink supplies belt clips, holsters and lanyards for body worn operation. Use of accessories not supplied by SpectraLink may cause the handset emissions to exceed RF energy exposure guidelines.

Chargers

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