



المملكة الأردنية الهاشمية

**The Hashemite Kingdom of Jordan
Telecommunications Regulatory Commission
Radio Spectrum Management Department**

Type Approval Application for Radio LAN Equipment

The Telecommunications Regulatory Commission

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P.O.Box: 941794 Amman 11194 Jordan

Directions: Shmeisani Area / Abd Al-Hamid Sharaf Street, building no. (90)

<http://www.trc.gov.jo>

E-mail: spectrum@trc.gov.jo

Board of Commissioners Decision No. 4-48/2003

Application Form:

All sections and annexes attached must be completed:

Section 1: Applicant Information and Type of Application.

Section 2: Equipment Information & Specifications.

Section 3: Submission of new models.

Section 4: Submission of type-approved models.

Annex 1: Declaration.

Annex 2: Safety Declaration.

Annex 3: Compliance List.

Annex 4: Resellers Commitment

Application Fees:

The application fee is 60 JDs and the test fee is 10 JDs. In case the model applied for is approved, the issuance fee for the Type Approval Certificate is 60 JDs.

Section 1
All items in this section must be completed

1.1 Applicant Information
Applicant's Name: _____
Address: _____ _____
Fax. No: _____ Zip Code: _____ Telephone No: _____
E-mail Address: _____ Web Site (if any): _____
Source of import: _____ Country: _____ Company: _____
Web Site: _____

1.2 Type of Application
<input type="checkbox"/> New Model <input type="checkbox"/> TRC Approved Model <input type="checkbox"/> Modified Model

-I/we certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing technical information and that it is true to the best of my knowledge and belief.

-I/we declare that all the information in this Application form is true and correct. I understand that approval from Telecommunications Regulatory Commission of Jordan for this application is based on information as declared in this application. Should this information be incorrect, any license granted by TRC will be revoked.

-I/We declare that the attached Application is completed by a technically qualified and competent person and all information given in this Application, and in the documents attached are true and correct. And in accordance with the conditions stated in the Telecommunications Law No 13 1995, *I/we will not market and sell the equipment until a Type Approval Certificate has been issued to *me/us.

-I/We warrant that each unit of equipment to be marketed under TRC approval will comply with all applicable requirements as stated in the application.

Name (Please print or type)

Signature & Date

Position

Telephone No.

Address (include ZIP Code)

Section 2

All items in this section must be completed

2.1 Equipment Information
Equipment:
Equipment Type:
Manufacturer's Name & Address:
Web Site:
Model No:

2.2 Specification			
a) General			
Item	Specification	Item	Specification
Frequency Range	Tx: Rx:	Type of Modulation	
Channel Spacing	MHz	Channel Capacity	
Bandwidth	MHz		
b) Receiver			
RF Sensitivity	μ V : dBm:	Rx Band:	
c) Transmitter			
RF Output Power	dBm	Tx Band	
Frequency Stability	ppm	Bandwidth	MHz
Frequency Deviation Limiting	kHz		

Section 3:

For submission of a new model currently not type-approved in Jordan, and a modified model.

3.1 Submission Requirements
The following items <u>must</u> be submitted:
i. Colour photographs, capturing front, rear, and side views;
ii. Full test report and other test data relevant to the equipment;
iii. Technical documents (include a general description of the equipment, the features and facilities the equipment supports);
iv. Manufacturer's Declaration of Conformity;
v. User Manual, if any.
vi. Safety Declaration

Section 4:

For submission of a type-approved model.

4.1 Conditions for Type Approval under Section 4
1.1 The model that has already been granted type approval by TRC.
1.2 The model submitted is identical to the TRC type-approved model.
1.3 The applicant shall submit any other documents or items deemed necessary by TRC.
1.4 TRC reserves the right to reject the application if the conditions stipulated under 4.1.1 to 4.1.3 are not met.

For Official Use Only		
Application [] Accepted [] Not Accepted	Photographs [] Accepted [] Not Accepted	Equipment Manual [] Acceptable [] Not Acceptable
Specification No.	Applicant's File No.	Test Report No.
TRC -Type Approval Certificate- No.	Date of Issue	Completed By : Signature:

All applicants for type approval must submit and abide to the following conditions:

- A TRC Declaration form in [Annex 1](#) must be completed.
- A TRC Safety Declaration form in [Annex 2](#) must be completed.
- A TRC Compliance List form in [Annex 3](#) must be completed.
- A TRC Emissions Declaration form in [Annex 4](#) must be completed
- A TRC Resellers Commitment form in [Annex 5](#) must be completed.
- The applicant is required to furnish information on the source of import in the Declaration.
- Only equipment from the declared manufacturer and source of import is allowed to be marketed and sold in Jordan. The applicant will be required to re-apply for a new type approval if the source of import has changed.
- A letter or a proof from the declared source of import stating the models supplied to the applicant.

Annex 1

Declaration	** To be completed by all applications **
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Please complete the rest of the application before signing this declaration

To the best of my knowledge and belief the particulars given in this document are correct and complete.

I have read the application notes, statements and conditions and will supply the necessary information (the attached) with my application.

I,(Name & Title) _____

Position in Company _____

For and on behalf of _____ (Name of Company) located
at Address _____

Do solemnly and sincerely declare that the following telecommunication equipment:

Manufacturer _____ Model No. _____
imported from :

Company _____

Address _____

Country _____

Contact Person (if possible) _____

Tel _____ Fax _____

E-mail _____

Complies with _____, and _____
_____, and

Standards and shall ensure that only radio communications equipment from the above declared source will be marketed and or operated and/or sold in Jordan.

I shall re-apply for type approval if the source of the above radio communications is different from the one declared above.

I further declare that the specimen(s) (if requested by TRC) offered for Type Approval test is/are representative of the product envisaged.

Signature & Name for and on behalf of (Name of Company)

Date

Annex 2

Safety Declaration

**** To be completed by all applications ****

I (We), Declare that I (We) have the safety test result relating to the radio communication equipment mentioned in this form as identified overleaf .

I (We) declare on my (our) sole responsibility that the radio communication equipment is in conformity with the following safety standard(s) and/or normative document(s) :

_____, and

_____, and

Telecommunications equipment information :

Manufacturer _____	Model No. _____
imported from :	
Company _____	
Address _____	
Country _____	

(Name & Title) _____

Position in Company _____

For and on behalf of _____ (Name of Company) located
at Address _____

Signature & Name for and on behalf of

Date

- Notes: 1. Please submit the application form to the above address together with the following:
- a) An application fee (where required),
 - b) All items specified in Section 3 or 4,
2. Application without the submission of complete documents will not be accepted.

3. Payment should be made by a crossed cheque/cache payable to "Telecommunications Regulatory Commission" or "TRC ". The application fee is not refundable.
4. TRC reserves the right to reject any equipment .

Annex 3

Declaration	** To be completed by all applications **
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Please complete the rest of the application before signing this declaration

I (We) declare on my (our) sole responsibility that the concerned product in this application is conformity with the following:

1. Any possible method should be done to enable the most efficient use of spectrum, such as Bandwidth expansion, amplitude modulation and single-sideband techniques.
2. Frequency tolerance of the center frequency used by the concerned product must comply with the ones specified in table1.
3. Maximum spurious emission power level from the concerned product should be within the range specified in table2.
4. Frequency tolerances and levels of unwanted emissions should be at the lowest value which the service permits.
5. In case of using Bandwidth-expansion techniques, power spectral density should be employed in such manner that ensures efficient use of the spectrum.
6. Technical parameters of the receiving station should be considered so as to comply with the class of emission concerned.
7. Interference caused by a transmitter located at a close distance from the receiver should be minimized using the appropriate performance characteristic & parameters.

Signature & Name for and on behalf of (Name of Company)

Date

Commitment

I, the undersigned, acknowledge that I will comply with the following commitments upon getting a Temporary Type Approval(Approval):

1. Importing the equipment during the Approval validation time, otherwise the approval will be cancelled.
2. Using the equipment as it is described in the Approval.
3. Using the equipment for the purpose that it is approved for.
4. Not allowing unauthorized persons to use the station.
5. Not transferring the ownership of any of the station/stations to other party unless getting an official approval issued from TRC.
6. Allowing any official team to inspect on the station at any time to check it's technical specifications, it's conformity with the Approval and it's workers.
7. Stop using the station in case the authorized entities asked for it.
8. Reporting to the Telecommunications Regulatory Commission and other relevant governmental entities in case of losing ,destroying, storing or re-exportation of any equipment
9. Providing the Telecommunication Regulatory Commission with the names of the persons who work on the station/stations in case of license renewal.
10. Providing the Telecommunications Regulatory Commission with a statement includes types, serial numbers and numbers of the stations equipment and a written certificate states that the license does not possess any equipment other than the equipment that is mentioned in the Approval, when asking for Approval renewal.
11. Providing the Telecommunications Regulatory Commission with a reinforcement letter from the governmental entity that has the contract with, and a photocopy of that contract.
12. Providing the Telecommunications Regulatory Commission with a customs certificate includes the number, brand, type and serial number of the equipment upon entering or exiting them to the country.
13. Shouldering any responsibility that results from not complying with any part of this commitment.

Name:----- Signature:-----

Title:-----

Date:-----

PLEDGE

I, the undersigned, acknowledge that to the best of my ability I have fully read and understood all the terms and conditions in this application form and completed it accurately.

Applicant's Name

Signature

Date

Application received by

Name:

Signature:

Date:

Annex 4

Specification	Comply		ACTUAL VALUE	Official Use Only
	YES	NO		
1- Modulation				
<p>1-1) Frequency hopping spread spectrum (FHSS modulation)</p> <p>Frequency hopping shall use at least 20 well defined, non a) overlapping channels or hopping positions separated by the channel bandwidth as measured at -20 dB below peak power.</p> <p>Dwell time per channel shall not exceed 0.4 seconds b)</p> <p>Each channel of the hopping sequence shall be occupied at least c) once during a period not exceeding four times the product of the dwell time per hop and the number of channels.</p> <p>1-2) Direct sequence spread spectrum (DSSS modulation)</p>				
2- Frequency Range				
<p>a. 2.400 GHz - 2.4835 GHz</p> <p>b. 5.150 GHz – 5.250 GHz</p> <p>Frequency Range is determined by the lowest and highest frequencies occupied by the power envelope.</p>				
3- Effective Radiated Power				
<p>a. ≤ 100mW (20dBm) EIRP in the 2400-2483.5 MHz band.</p> <p>b. ≤ 200mW (23dBm) EIRP in the 5150-5250 MHz band.</p>				
4- Peak Power Density				
<p>FHSS modulation 20 dBm/100 kHz(= 100 mW/100kHz) eirp</p> <p>Other modulation 10 dBm / 1 MHz(= 10 mW/MHz) eirp</p>				

Specification					Comply		ACTUAL VALUE	Official Use Only
					YES	NO		
5- Transmitter Spurious Emissions								
Shall not exceed the following values in the indicated bands :								
	Operating		Standby					
Frequency Range	in 120 kHz	in 1 MHz	in 120 kHz	in 1 MHz				
30MHz - 1GHz	-36dBm (250 nW)	n.a.	- 57dB m (2 nW)	n.a.				
41.0 - 68MHz 87.5 - 118 MHz 162.0 - 230 MHz 470.0 - 862MHz	-54 dBm (4 nW)	n.a.	- 57dB m (2nW)	n.a.				
1 - 12.75 GHz	n.a.	-30 dBm (1μW)	n.a.	-47 dBm (20nW)				
890 - 960 MHz 1.8 - 1.9 GHz 5.15 - 5.3 GHz See Note	-56 dBm (3 nW)	n.a.	as above	as above				
Note : In these bands, the measurement of any spurious product found shall be repeated with a measurement bandwidth of 30 kHz. If the level observed remains within 2 dB of the previous measurement, the spurious product shall be considered a narrow band signal. For narrow band signals the limit value of -36 dBm (250 nW) shall apply at frequencies below 1 GHz and the limit value of -30 dBm (1μW) shall apply at frequencies above 1 GHz.								

Specification			Comply		ACTUAL VALUE	Official Use Only									
			YES	NO											
6- Receiver Spurious Emissions															
Shall be limited to the following values :															
<table><tr><td>Frequency Range</td><td>in 120 kHz</td><td>in 1 MHz</td></tr><tr><td>30 MHz - 1GHz</td><td>-57 dBm (2 nW)</td><td>n.a.</td></tr><tr><td>1 - 12.75 GHz</td><td>n.a.</td><td>-47 dBm (20nW)</td></tr></table>			Frequency Range	in 120 kHz	in 1 MHz	30 MHz - 1GHz	-57 dBm (2 nW)	n.a.	1 - 12.75 GHz	n.a.	-47 dBm (20nW)				
Frequency Range	in 120 kHz	in 1 MHz													
30 MHz - 1GHz	-57 dBm (2 nW)	n.a.													
1 - 12.75 GHz	n.a.	-47 dBm (20nW)													

Resellers Commitment Form

I/we the undersigned commit to report to the Telecommunication Regulatory Commission the quantities and models of Radio LAN equipment sold from our warehouses / shops. I/we also commit to provide the Telecommunication Regulatory Commission with the name of the purchasers and the intended locations of operation.

Name: _____

Signature: _____

Company Stamp: _____

Annex 5

RLAN

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Annex 6

RLAN

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Return this application form to: -

The Telecommunications Regulatory Commission

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Fax: (962 6) 5690511

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