

# MOTOROLA CPEi25100 RESIDENTIAL INDOOR SUBSCRIBER UNIT

## FCC CERTIFICATION REPORT

Motorola, Inc.  
2900 County Rd 42 W  
Burnsville, MN 55337

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### TABLE OF CONTENTS

<u>Section</u>	<u>Description</u>
1	Cover Letter
2	Labels
3	External Photos
4	Internal Photos
5A	Test Report
5B	Test Report, EMC
6	Test Setup Photos
7	Users Manual
8	RF Exposure Information
9	Correspondence
10	Block Diagrams
11	Schematics
12	Parts List
13	Technical Description
Appendix	Analyzer Plots Not Shown in Report

# Section 1

# Cover Letter

To Whom It May Concern:

This report is being submitted to the Federal Communications Commission for the certification of equipment pursuant to the requirements found in 47 CFR Telecommunication CHAPTER I FEDERAL COMMUNICATIONS COMMISSION, Parts 0, 1, 2, 15, and 27 as published in the Federal Register on July 3<sup>rd</sup>, 2007.

The product listed in this filing has been tested in accordance with the requirements contained in the appropriate FCC Rules and Regulations. To the best of my knowledge, the tests completed for this certification submission were performed using measurement procedures consistent with accepted FCC and industry procedures and demonstrates that this equipment complies with the appropriate regulatory requirements. I hereby certify that this application was prepared under my direction and that to the best of my knowledge and belief, the facts set forth in this application and accompanying technical data are true and correct.

Motorola Part Number: 900-0612-xxxx

Motorola Model Number: CPEi25100

Regards,  
Tim Blom  
Section Manager RF Engineering  
Motorola, Inc., NextNet Wireless Product Group

## Report Summary

Section	Contents
1	Cover Letter
2	Labels
3	External Photos
4	Internal Photos
5	Test Report (Parts A, B)
6	Test Setup Photographs
7	Users Manual
8	RF Exposure Information
9	Correspondence
10	Block Diagrams
11	Schematic Diagrams
12	Parts List and Tuneup Information
13	Technical Description
Appendix	Additional Tables and Analyzer Plots

## Test Report Summary FCC Part 27

47CFR Rule Part	Requirement	Test Result
1.1310 / 2.1091 / 27.52	Radio Frequency Radiation Exposure Limits / Evaluation: Mobile devices	Pass
2.1046 27.50(h)(2)	RF Output Power - User Station	Pass
2.1047 27.53(l)	Modulation Characteristics	Pass
2.1049 27.53(l)	Occupied Bandwidth	Pass
2.1051	Spurious Emissions at Antenna Terminals	Pass
2.1053	Field Strength of Spurious Radiation	Pass
2.1055 / 27.54	Frequency Stability	Pass

## FCC Requirements Check List

FCC Rule Part	Description	Response
0.457	Records not routinely available for public inspection	Section 9
0.459	Requests that materials or information submitted to the Commission be withheld from public inspection.	Section 9
Part 27 "Application for Certification" requirements		
2.947	Measurement procedure:	Sections 5, 8
2.1033(c)	Technical Report Required	Sections 5, 8
2.1033(c)1	Name / Address of Manufacturer / Applicant	Motorola, Inc., NextNet Wireless Product Group 2900 County Rd 42 W Burnsville, MN 55337
2.1033(c)2	FCC identifier.	PHX-CPE25100
2.1033(c)3	Manual(s) / Literature	Section 7
2.1033(c)4	Type or types of emission.	27.53(l): Digital OFDMA / 4M45W7D OFDMA / 9M09W7D
2.1033(c)5	Frequency range.	2496 – 2690 MHz
2.1033(c)6	Power Range	0.000025 – 0.5 Watts Sections 5, 13
2.1033(c)7	Maximum power rating	Section 5
2.1033(c)8	DC voltages and DC currents	Sections 10, 11
2.1033(c)9	Tune-up procedure	Section 12
2.1033(c)10	Schematic diagram and descriptions	Sections 11, 12, 13
2.1033(c)11	Labels	Section 2
2.1033(c)12	Photographs	Sections 3, 4, 6
2.1033(c)13	Technical Description	Section 13
2.1033(c)14	2.1046 through 2.1057 data	Sections 5, Appendix
2.1033(c)15	External power amplifier	Not applicable
2.1033(c)16	AM broadcast	Not applicable
2.1033(c)17	Composite system	Not applicable
2.1033(c)18	Software Defined	Not applicable
2.1033(d)	Part 20 hearing aid compatible	Not applicable
2.1033(e)	A single application / composite system	Not applicable