

Assessment REPORT (CAB202)

Project 1-1554_1a09
 Applicant: Digi International GmbH
 Type Designation: Connect Core Wi-i.Mx51

Project No.:	1-1554_1a09	New Application:		Extension/Change	x	Antenna update
CAB	202					
Approval Holder:	Digi International GmbH 11001 Bren Road Road MN 55343 – Minnetonka, USA			Responsible representative: Frank Artner - Hardware Manager Tel : +1 952 912-3235 e-mail: Frank.Artner@digicom		
Applicant:	Digi International GmbH Kueferstr. 8 D_79208 Breisach - Germany			Responsible representative: Sebastien Meyer Tel : +49 7667 908 134 e-mail: Sebastien.Meyer@digicom		
Manufacturer I:	Digi International GmbH Kueferstr. 8 D_79208 Breisach - Germany			Responsible representative: Juergen Bischoff,-Manager Operations Breisach Tel : +49 7667 908 134 e-mail: Sebastien.Meyer@digicom		
Other Manufacturer:	-					
Product Description/Intended use	<u>IEEE802.11 abgn WLAN Board/client</u>					
Equipment Class:	1					
Manufacturer/Brand	Digi International					
Model Name:	ConnectCore Wi-i.Mx51				HW:	
				SW:		
Transmission:	Communication- Method:	TDD	Frequency band :	<u>IEEE802.11 bgn</u> 2400 – 2483.5 MHz (2412 – 2472 MHz) 2471 – 2497 MHz (2484 MHz)	Hardware, Software Versions	HW: /. SW: /.
	Data rate:	11 Mbps-54 Mbps		<u>IEEE802.11 an</u> 5150 MHz - 5350 MHz (5180 MHz – 5320 MHz) 5470 – 5725 MHz (5500 MHz – 5700 MHz)		
	Type of emission:	D1D, G1D	Modulation	DSSS: BPSK, QPSK OFDM: BPSK, QPSK, 16/ 64 QAM	Rated output Power /W	<u>IEEE802.11bgn</u> 0.0011 W/MHz - 0.003 W/MHz(WW) 0.00262 W/MHz(GZ)
	Oscillation	QRF:40 MHz Q1-N=24/25 MHz i.MX51 mitigation frequ: 600/800 MHz	Antenna Description:	<u>IEEE802.11 abgn</u> 2x External rod antenna Internal Multi-Band PCB Antenna:Centurion P/N: CAF94505	Antenna gain/dBi:	<u>IEEE802.11bgn:</u> 3.39dBi(WW) <u>IEEE802.11bgn:</u> 3.09dBi(GZ) <u>IEEE802.11an:</u> 4.45dBi(XW) <u>IEEE802.11an:</u> 5.5 dBi(YW) <u>IEEE802.11an:</u> 4.49dBi(YW)
				EIRP/dBm:	-	

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Product Description

Product Construction	Transceiver and Receiver	x	Independent equipment- WLAN Board
			PCMCIA
			CF Card
			Mini-PCI
			PCI Module
	Power Supply		powered via internal battery(3.7 volt Lithium Ion Polymer battery)
			Supplied from external Interface
		x	External (AC adapter)- 100 V AC by AC/DC power supply
	Antenna Configuration		External (other)
		x	Internal Multi-Band PCB Antenna:Centurion P/N: CAF94505
Accessories	x	2 x Dedicated rod antennas	
		Changeover by internal and external switch	
		Stand alone operational	
Housing	See TCF		
Specification of external Interface to core device	PCI		

List of product components

		Quantity	Notes
1	Approval core equipment	1	
2	Power Supply	1	100 V AC by AC/DC power supply
3	Antenna and antenna cables	2	
4	Software	-	
5	Instruction manual	1	
6	Other		

Weight(g) and Dimensions(mm)

	Weight(g)	Width/mm	Depth/mm	Lenght/mm
Evaluation board:	50.83	210	25	185
Module:	26.35	82	8	50

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Radio

Regulations/Classification

Ordinance concerning Technical Regulations Conformity

Certification etc. of Specified Radio Equipment

特定無線設備の技術基準適合証明等に関する規則

Radio Law Enforcement Regulation:

電波法施行規則

Non licensed Radio Station:

免許を要しない無線局

ID Cod, Name Auto-Transmission& receiving

識別符号自動送信・受信

Radio Facilities Regulations:

無線設備規則

Facilities distinction:

無線設備の条件

Function of interference prevention:

混信防止機能

Class 1 (Low Power data communication system in the 2.4 GHz / 5.2, 5.3, 5.6 GHz band)

Article 2, clause 1, Item 19-1/2

Article 2, clause 1, Item 19-3

Article 2, clause 1, Item 19-3-2

Article 6.4.4

Article 6.2.3

Article 49.20.1/2 Article 2, clause 1, Item 19-1/2

Article 49.20.3 Article 2, clause 1, Item 19-3

Article 49.20.3.2 Article 2, clause 1, Item 19-3-2

Article 9.4.9



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EXIBITS

Checklist/Exibits

Checklist/Exibits		verdict		
ApplicationForm	complete			
Product description	complete			
Label / Label Location Info	complete			
Dimension Diagram/Weight	complete			
Shielding provision of the RF part	complete			
Block Diagram	complete			
External/Internal I Photos	complete			
Schematics	complete			
User manual/Operation Description	complete			
Antenna information:	complete			
Antenna Diagram	complete			
ISO 9001 certification	complete			
QAS Inter Action File	complete			
Test Report 2400 2483.5 MHz	complete			
Test Report 2471 -2497 MHz	complete			
Test Report 5150 – 5350 MHz	complete			
Test Report 5470 5725 MHz	complete			
Test Report DFS –Slave requirements	complete			

Agenda:	Black complete	Blue Under review	Red missing
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Legends:
 TCF : Technical Construction File

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Project History

Start Date	Actual Status Comment	Target for Approval	Granted Date	Grant N:	verdict
2011-03-01	Closed		2011-04-15	2400-2483,5 MHz: 202WW09115541 2,471 – 2,497MHz: 202GZ09115541 5150 – 5350 MHz: 202XW09115541 5470 – 5725 MH: 202YW09115541	Conformity approved

2011-04-15
 2012-07-16



CAB202

