

## 1. GENERAL INFORMATION

### 1.1. Product description of MEDIO P101 WIFI

#### 3.1 Product Description

The Medio P101-WIFI is a Medium Range 13.56 MHz RFID reader designed for Library, Textile Rental and I&L applications. The Medio P101-WIFI has been designed to be used in combination with L-W1 and TR-HA1 antennas that comply with FCC and CE rules and L-SA3 and Aero-LI antennas that comply with CE rules. The Medio P101-WIFI can decode C210, C220, C240, C320, C370(ISO 15693), C270(I-Code1)and I-Code ePC and I-Code UID tags.

Due to its small size, the Medio P101-WIFI can be used either in desktop configuration or easily integrated in self check stations.

The Medio P101-WIFI is equipped with the following communication interfaces:

- USB 1.1 communication link (prioritary)
- WIFI (Raw TCP serial communication)

#### 3.2 Medio P101-WIFI Key Features

Table 1: Medio P101-WIFI Key Features

Description		Medio P101-WIFI	
Operating Frequency		13.56 MHz	
Compatibility (depends on application firmware)	Firmware	Chips	
	Library	C220, C320, C370(ISO 15693)	
	Textile rental	C210, C240, C270(Philips I-Code1), C370(ISO15693)	
	I&L	C270 (Philips I-Code1), C370 (ISO15693), I-Code EPC/I-Code UID	
Serial Link		USB 1.1 or WIFI raw TCP serial communication	
Firmware Downloadable		Yes	

### 3.3 Delivery

The Medio P101-WIFI Tag Reader kit contains the following items:

Table 2: Package Contents

Quantity	Item
1	Medio P101-WIFI reader
1	WIFI antenna
1	SMA/BNC adaptor
1	Set of rubber feet
1	USB cable
1	I/O connector
1	Wall fixing accessory
1	12 V power supply
1	<i>CD-ROM including:</i> <ul style="list-style-type: none"> <li>• Medio P101-WIFI User's Guide, Command Set</li> <li>• USB drivers for Win32 X86 platforms</li> <li>• User-friendly Px Explorer software provided for test and debug operations on Windows® 9x, NT®, 2000 and XP platforms</li> <li>• TAGSYS Software Development Kits including <ul style="list-style-type: none"> <li>◦ Medio STX DLL package</li> <li>◦ Library SDK including DLLs and ActiveX control</li> <li>◦ Java Package</li> </ul> </li> <li>• Digiconnect WIFI module integration kit</li> <li>• Adobe Acrobat reader version 6&amp;7</li> </ul>
1	Welcome Letter / Product Return Form

### 1.2. Related Submittal(s) / Grant(s)

All host equipment used in the test configuration are FCC granted, when relevant.

### 1.3. Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system are :

Trade Mark – Model Number (Serial number)	FCC ID	Description	Cable description
MEDIO P101 WIFI (sn: RD050105-1)	QHKMEDIOP101WIFI	RFID reader	Power cord unshielded, USB cable shielded, Coaxial cable with 6 ferrites (antennas) I/O cable unshielded
LW1 antenna TR-HA1 antenna			
XP model:MPP6US12-2 (sn: none)	none	AC/DC Power supply Out 12vdc/450mA	Power cord unshielded.
Hewlett Packard VECTRA VL420 DT pn: P5755-60201 (sn: FR14122957)	DOC	Personal computer	Power cord unshielded. All other cable shielded.
Hewlett Packard pn:D2846 (sn: JP74001000)	DOC	Monitor	Power cord unshielded. Video cable shielded
Hewlett Packard pn:C4736A (sn: LZA4000061)	DZL211092	MOUSE	PS2 cable
Hewlett Packard pn:C474 (sn: M990814763)	GYUR73SK	Keyboard	PS2 cable
NETGEAR WG-602 v3 (sn: WG17151DB036258)	PY3WG602V3	54Mbps WIFI wireless access point	Power cord unshielded Ethernet cable shielded
US ROBOTICS NR15.0010.01 (sn: none)	none	Power adapter for NETGEAR WG-602 v3 (Out: 7.5Vdc/1A)	Power cord unshielded
TAGSYS	none	TAG ISO 15693	

\* : Equipment under test.

### 1.4. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003, FCC Part 15 Subpart C.

Radiated testing was performed at an antenna to EUT distance of 10 meters (F<30MHz) and 10m (F>30MHz). During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

### 1.5. Test facility

Tests have been performed on January 17<sup>th</sup> to 20<sup>th</sup>, 2006 ; March 1<sup>st</sup> & 15<sup>th</sup>, 2006.

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4-2003 in a letter dated July 14, 2005 (registration number 94821). This test facility has also been accredited by COFRAC (French accreditation authority for European union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.