

## GENERAL INFORMATION

### 1.1. Product description of the MEDIO P101 Ethernet reader

## 3.1 Product Description

The Medio P101-Ethernet is a Medium Range 13.56 MHz RFID reader designed for Library, Textile Rental and I&L applications. The Medio P101-Ethernet has been designed to be used in combination with Aero LB, LW 1, Aero LF SHD and LSA 4 antennas that comply with FCC and CE rules. The Medio P101-Ethernet 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-Ethernet can be used either in desktop configuration or easily integrated in self check stations.

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

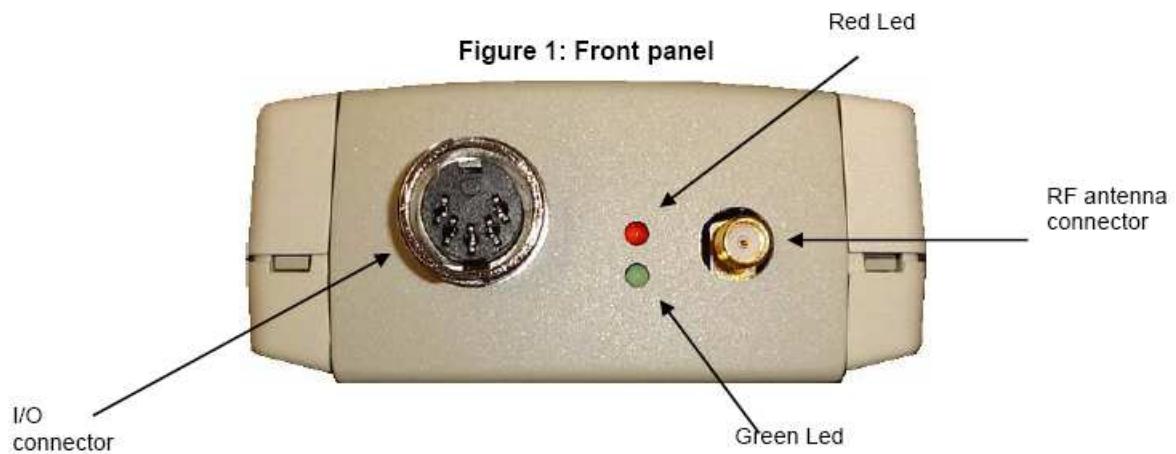
- USB 1.1 communication link (prioritary)
- Ethernet (Raw TCP serial communication)

## 3.2 Medio P101-Ethernet Key Features

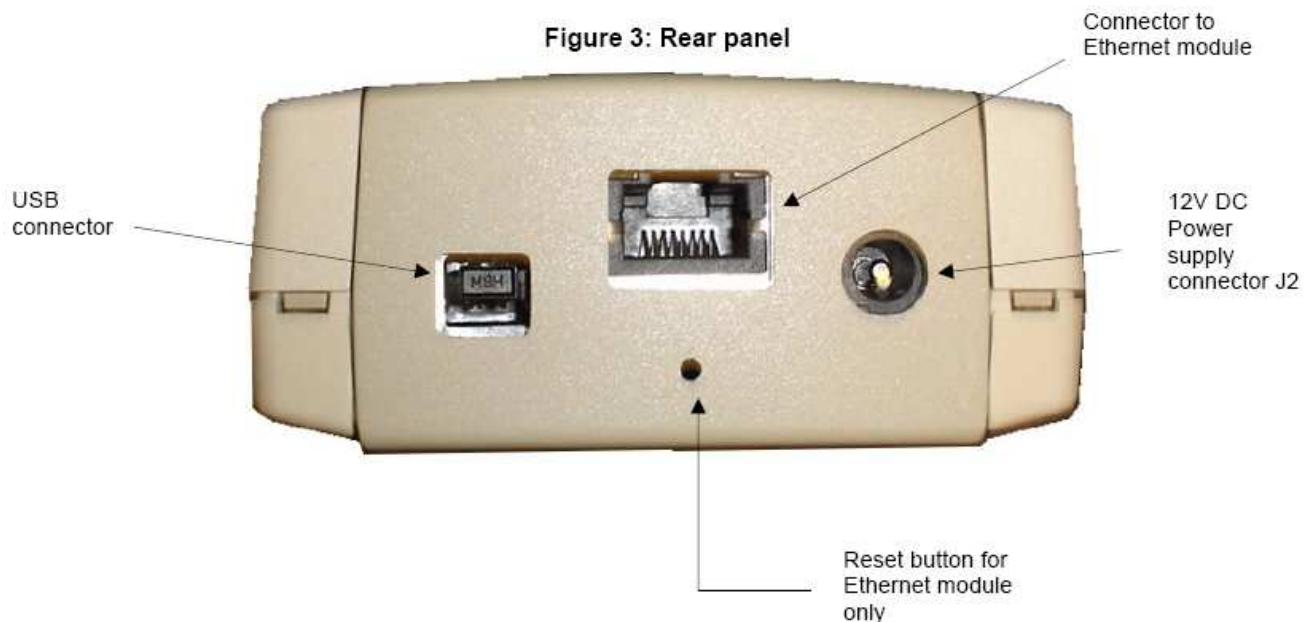
Table 1: Medio P101-Ethernet Key Features

Description		Medio P101-Ethernet	
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 Ethernet raw TCP serial communication	
Firmware Downloadable		Yes	

The front panel is dedicated to RF and I/O connectors:



The rear panel is dedicated to power supply and communication connectors.



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

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

### 1.3. Tested System Details

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

Trade Mark – Model Number (Serial number)	FCC ID	Description	Cable description
<b>TAGSYS – MEDIO P101 ETHERNET</b> Sn: E1	QHKGMEIOP 101ETHER	RFID tag reader	Power and I/O: unshielded RF, Ethernet, USB: shielded
TOSHIBA SATELITE S1410-704 (PS141E-04YCM-3V) sn: 13594938G with its power supply unit (PA3201U-1ACA SEB100P2-15.0)	DOC	Laptop Personal Computer	Power cable unshielded USB cable: shielded Ethernet cable: shielded
TAGSYS - RFID tag (C270)	-	TAG	
TAGSYS - RFID tag (ISO 15693)	-	TAG	
TAGSYS- AERO LB antenna	-	13.56MHz RF antenna	50Ω, 6 ferrites on reader's side , 3m
TAGSYS- AERO LF antenna	-	13.56MHz RF antenna	50Ω, 3m
TAGSYS- L-SA4 antenna		13.56MHz RF antenna	BNC, 50Ω, 6 ferrites on reader's side, 5m
TAGSYS- L-W1 antenna	-	13.56MHz RF antenna	BNC, 50Ω, 6 ferrites on reader's side , 3m

**\*: 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. 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 from January 16<sup>th</sup> to 30<sup>th</sup>, 2008

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 2004/108/EC European EMC Directive application. All pertinent data for this test facility remains unchanged.