

Cabinet RF ID Board V1.0 Manual

CABINET RFID BOARD V1.0 board with 4 antenna ports, using RFID module model EC-UHF-A-6. When the RFID tag of the internal reagent of DNBSEQ-T7+ approaches the antenna, its tag serial number is read.

The CABINET RFID BOARD V1.0 and RW_module V3.0 are arranged in different reagent slots.

The SCH of the 3 boards:



CABINET RFID
BOARD V1.0 - waif

Technical data:

5V, 160mA

Operating frequency band: 902.25MHz ~ 927.75MHz

Max output power: 10mW /antenna

Description of working principle: See the manual.



H-020-001143-00
DNBSEQ-T7+RS Gene

layout:

Label:

Model: CABINET RFID BOARD V1.0

Input: 5VDC, 0.16A

FCC ID: 2A92ZCABINET-1

IC: 29863-CABINET1

CMIIT ID:

Complete Genomics, Inc.

2904 Orchard Parkway San Jose, CA 95134

FCC Radiation Exposure Statement

The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device, for example, USB dongle like transmitters is forbidden.

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.

When the module is installed inside another device, the user manual of this device must contain below warning statements:

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference, and
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

The host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

The end user manual shall include all required regulatory information/warning as shown in this manual, include:

This product must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

ISED Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canada ICES-3 (B)/NMB-3(B).

Cet appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux RSS exemptés de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

- (1) Cet appareil ne doit pas causer d'interférences nuisibles, et
- (2) Cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

L'appareil numérique est conforme au Canada ICES-3 (B)/NMB-3(B).

This device meets the exemption from the routine evaluation limits in section 6.6 of RSS 102 and compliance with RSS 102 RF exposure users can obtain Canadian information on RF exposure and compliance.

Cet appareil respecte l'exemption des limites d'évaluation de routine de la section 6.6 de la norme RSS 102 et la conformité à la norme RSS 102. Les utilisateurs d'exposition aux RF peuvent obtenir des informations canadiennes sur l'exposition aux RF et la conformité. RF Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in mobile or fix exposure condition (>20cm) without restriction.

L'appareil peut être utilisé en condition d'exposition mobile or fix sans restriction. L'appareil a été évalué pour répondre aux exigences générales en matière d'exposition aux RF (>20cm).

Product Name:	Planar RFID antenna
Product Model:	EC-UHF-ANT-NF0014A
Trade Name:	EC-LINK
Frequency Band:	860MHz ~ 960MHz
Sample submitting way:	☒ Provided by customer ☐ Sampling
Sample No:	E202505163930-0001
Note:	The laboratory does not bear any consequences for the authenticity, completeness and effectiveness of the above product information.

Test Frequency (MHz)	Gain (dBi)	Efficiency (%)
840	-4.43	5.61
850	-5.13	4.82
860	-5.53	4.40
870	-5.59	4.42
880	-5.80	4.29
890	-6.06	4.13
900	-6.52	3.88
910	-6.73	3.91
920	-6.31	4.26
930	-5.31	5.08
940	-5.18	5.10
950	-5.51	4.68
960	-5.89	4.30
840	-4.43	5.61
850	-5.13	4.82
860	-5.53	4.40
870	-5.59	4.42
880	-5.80	4.29
890	-6.06	4.13
900	-6.52	3.88
910	-6.73	3.91
920	-6.31	4.26
930	-5.31	5.08
940	-5.18	5.10
950	-5.51	4.68
960	-5.89	4.30

Product Name	Planar RFID antenna
Sample Model	EC-UHF-ANT-NF0015
Antenna Size	/
Serial No.	/
Antenna Type	Planar RFID antenna
Test Item	Antenna gain; Radiation pattern and efficiency
Frequency Range	840MHz-960MHz
Received Date	2024.8.19
Test Date	2024.8.19
Remark	/

Frequency/MHz	840	850	860	870	880	890	900	910	920	930	940	950	960
Peak Gain/dBi	-9.91	-10.21	-10.20	-10.20	-10.42	-10.14	-9.94	-10.11	-10.37	-10.39	-10.74	-10.35	-10.82
Efficiency/%	4.50	4.49	4.51	4.58	4.56	4.59	4.56	4.52	4.31	4.22	4.03	4.00	3.87