

Quick start guide

Communication module (#4222)



This quick start guide is intended to provide a quick overview of the communication module, the devices it can be used with and the standards it complies with. For detailed information, please refer to the latest operating instructions of the corresponding devices that can be found at www.integra-biosciences.com in different languages.

Safety information

Regardless of the listed safety notes, all locally applicable regulations must be observed.

- 1) The communication module may only be installed in the devices specified by INTEGRA.
- 2) The communication module may not be inserted and removed more than 10 times. Otherwise, its functionality is no longer guaranteed.

Module specifications



The communication module with a built-in antenna supports wireless data transmission via Bluetooth technology during liquid handling applications within INTEGRA- or 3rd party devices.

It operates within a 2.4 GHz band frequency and is a dual mode Bluetooth BR/EDR - BLE module enabling Bluetooth Low Energy and Classic open field connectivity of about 10 meters (line-of-sight) between devices.

The Bluetooth module's receiver sensitivity is rated at -95 dBm, which allows it to effectively capture weak signals, enhancing its performance in various environments.

The physical dimensions of the compact module are measuring 11.6 mm in width, 16.0 mm in length, and 2.2 mm in height.

Intended use

The firmware and hardware of the INTEGRA devices in which the communication module is to be installed, must be compatible with the firmware of the module. This applies to the following devices:

Device	Part number	Compatibility
VIAFLO Pipettes	4011, 4012, 4013, 4014, 4015, 4016, 4621, 4622, 4623, 4624, 4626, 4631, 4632, 4633, 4634, 4636, 4641, 4642, 4646 4621EF, 4622EF, 4626EF, 4631EF, 4632EF, 4636EF, 4641EF, 4642EF, 4646EF	FW Version >5.13 SN >6 000 000
VOYAGER Pipettes	4721, 4722, 4723, 4724, 4726, 4731, 4732, 4736, 4743, 4744, 4763, 4764 4721EF, 4722EF, 4726EF, 4731EF, 4732EF, 4736EF	FW version >5.13
D-ONE Module	4531, 4532, 4531EF, 4532EF	FW version >5.13
ASSIST	4500	FW version ≥1.32
ASSIST PLUS	4505	FW version ≥1.25

Note: Please also refer to the latest document "Software_and_Firmware_update_history_VXX.docx" that can be found in the Update section of the VIALAB/VIALINK software.

The energy demand is slightly increased in wireless operation and the power supply is guaranteed via the INTEGRA host device. No stand-alone operation possible.

Operational requirements

The following environmental requirements must be observed for a safe operation and usage of the communication module:

Temperature range during operation	5 to 40 °C
Temperature range during storage	-10 to 50 °C
Humidity range	Max. 80% RH at ≤31 °C; linear ≤50 % RH at 40 °C
Altitude	≤2000 m above sea level
Pollution level	2; acc. to IEC EN/UL 61010-1, i.e. only non-conductive pollution
Operation	for indoor use only

Installation into INTEGRA electronic pipettes



1. Loosen screw to detach pipette backing.



2. Disconnect battery power plug.



3. Insert the communication module (#4222) into socket above battery. Position carefully and press to secure firmly.



4. Reconnect battery power plug.



5. Replace pipette back and tighten screw.



6. Connect pipette to power supply for first time start-up.

Conformity

The communication module fulfills certain regulatory compliance with RF, energy, and data transmission. To access the certification screen of the electronic pipettes where the markings are listed, navigate from the main menu to "Toolbox – Certification".



For detailed conformity declaration, please refer to the operating instructions of [VIAFLO/VOYAGER Pipettes](#), [D-ONE Module](#), [ASSIST](#), [ASSIST PLUS](#), or [MAG/HEATMAG](#).

Compliance markings Korea



Company name: INTEGRA Biosciences AG

Equipment Name: Pipet / Pipetting robot / Magnetic module

Model Name:

VIAFLO / VOYAGER / ASSIST / ASSIST PLUS / MAG/HEATMAG

Manufacturer/Country: INTEGRA Biosciences AG / Switzerland

R-R-N4t-VIAFLO / R-R-N4t-VOYAGER / R-R-N4t-ASSIST / R-R-N4t-ASSISTPLUS / R-R-N4t-MAG/HEATMAG

Regulatory notes

FCC: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. 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.

IC: This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Equipment Disposal



Communication modules must not be disposed of with unsorted municipal waste. Do not dispose of the communication module in a fire.



In certain regions and countries, e.g. in EU member states, the distributor is obliged to take back this product free of charge at the end of life. Please contact your local distributor for more details.

Manufacturer and customer service

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