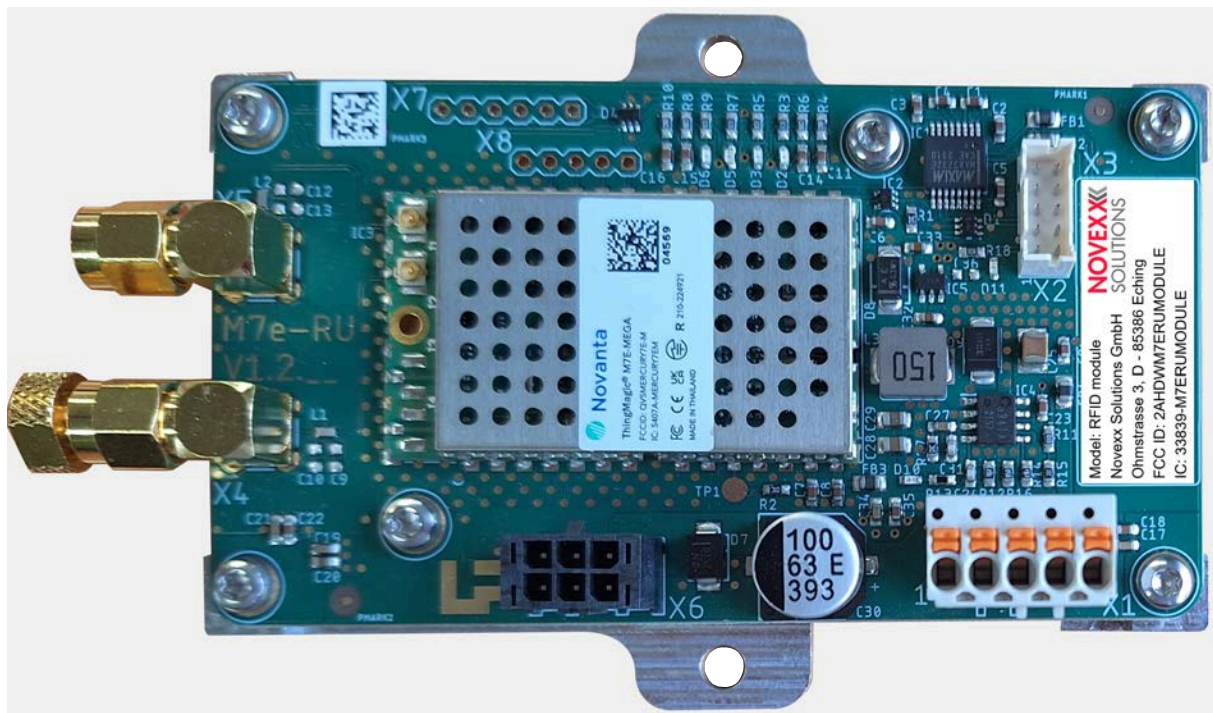


MANUAL

Technical Information RFID Module



Contents

Description of the RFID module -3

Description of the RFID module

Intended use

- The RFID module is a machine option for reading and writing RFID tags.

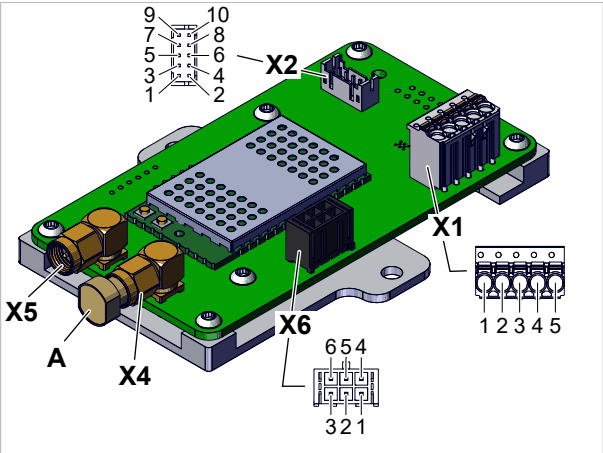
 The RFID module is designed for factory installation in a machine. As an alternative to installation in a machine, the module must be installed in a separate housing.

- Two interfaces are available for data communication with the machine. An RS232 interface (X1) and a serial interface with TTL level (X2). The interfaces must not be used simultaneously.
- The module can operate in a frequency range of 860 – 930 MHz. The regional frequency range in an application is set via the control of the machine.
- The module has a RF output level range from -10 dBm to +30 dBm. The output level will be set via the control of the machine.
- The module is designed for a power supply of 24-48 V DC. The power supply is provided via connector X1 or X6
- Two SMA connectors are available for connecting the antenna. If no antenna is connected to a port, this port must be equipped with a 50 Ohm termination resistor.

 To comply with conformity, only the following tested antennas may be used:

- Novexx N104369
- Logopak RFID NearField-Antenna 01

Connections



X1	Alternative power supply and alternative serial connection (RS232) with spring terminals
X2	Serial connection 3.3 V TTL level
X4	Antenna 2
X5	Antenna 1
X6	Voltage supply
A	50 Ohm termination resistor
	! If only one antenna is connected, the free antenna connection must be fitted with a 50 Ohm terminating resistor (standard delivery condition).

!

Connect the power supply or alternative power supply (not both at the same time).

Connect the serial port or alternative serial port (not both at the same time).

Pin assignment

Connection X1:

1	+24 V - 48 V DC
2	GND
3	GND
4	TxD
5	RxD

Connection X2:

1	GND	6	GND
2	RxD	7	--
3	TxD	8	--
4	--	9	--
5	GND	10	GND

Connection X6:

1	GND
2	┐
3	┘
4	+24V - 48V DC
5	┐
6	┘

Notices required by the 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.”

FCC Interference Statement (Part 15.105 (b)):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- ▶ Reorient or relocate the receiving antenna.
- ▶ Increase the separation between the equipment and receiver.
- ▶ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ▶ Consult the dealer or an experienced radio/TV technician for help.

Information required under 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.”

RF Exposure Guidance

In order to comply with FCC / ISED RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.

Afin de se conformer aux exigences d'exposition RF FCC / ISED, cet appareil doit être installé pour fournir au moins 20 cm de séparation du corps humain en tout temps.

- Antennas - A list of antennas included; identify types

- Label and compliance information – advise host manufacturers to provide a physical / e-label stating, “Contains FCC ID: 2AHDWM7ERUMODULE”. “Contains IC: 33839-M7ERUMODULE” with their finished product
- Additional testing, Part 15 Subpart B disclaimer - include a statement that the final host product still requires Part 15B compliance testing with the modular transmitter installed

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