JA-194Y LTE communicator module

*The GSM communicator module is intended to be used with the **JA-103K, JA-107K and JA-108K** security alarm control panels of the **JABLOTRON** series. A control panel fitted with the JA-194Y module can communicate with an ARC via GSM networks transmit alarm SMS and voice messages. It also enables remote configuration of the control panel using the F-Link software.*

Installing the module in the control panel

The module is to be installed directly on the control panel's motherboard using a flat connector labelled GSM Module (see the control panel installation manual).

a) **Prepare a suitable SIM card (micro SIM).** It must be activated (test is using a mobile phone). SMS, DATA (GPRS, LTE), voice and CLIP (caller ID) services must be enabled. If the SIM card requires a PIN code, **deactivate it** using the mobile phone. The communicator works with pre-paid cards; however it is recommended to use a SIM card with a monthly plan to make sure the communicator works properly.

b) **Insert the SIM card** into the SIM card slot.

c) **Disconnect** the control panel **from its power supply** (backup battery, USB and mains electricity)

d) Insert the communicator module into the system connector on the control panel and use two screws (1.) to fix it to the motherboard.

e) **Attach the GSM antenna** to the connector (2.) on the communicator module (included with the JA-194Y). When installing the antenna, follow the orientation shown in Fig. 1.

Warning: The module must not be powered without an attached antenna!!!

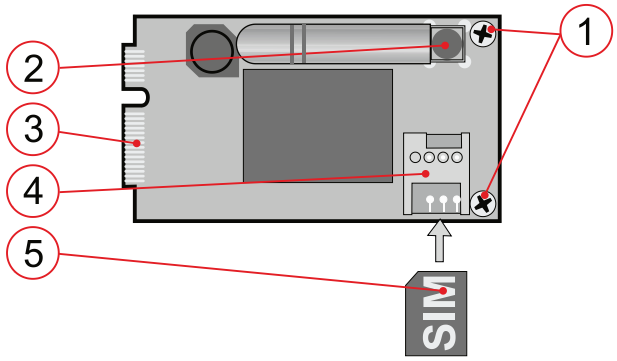


Fig. 1: The JA-194Y communicator

*Description: **1** – safety screws; **2** – GSM antenna SMA connector; **3** – system connector; **4** – SIM card slot; **5** – SIM card*

Communicator activation

a) Before connecting the power supply, check whether: the communicator is properly fixed to the motherboard, the antenna is attached, and the SIM card is inserted into the SIM card slot. Removing the communicator module in order to insert the SIM card **is not necessary.**

b) **Connect the control panel's power supply** (backup battery and then the mains electricity).

c) A **flashing red communicator LED** indicates connecting to a GSM network and will stop flashing within 1 minute = **connected.**

d) Disconnect the power supply if the red LED indicator keeps flashing. Insert the SIM card into a mobile phone to make sure the SIM card works correctly and does not require a PIN code

e) Remain in Service mode and **close the control panel case**.

f) Configure the communicator settings using the F-Link software (see the Control panel installation manual).

Warning: When used near the borders of neighbouring countries, a fluctuating quality of signal may force the module to use roaming which may significantly increase communication costs. This can be prevented by disabling the SIM card's roaming (ask the mobile network provider).

Communication to ARC and communication monitoring

– The communicator periodically checks the status of the connection to the ARC and if there is a problem in communication with the ARC, a fault is triggered

– the communicator works in the Forward mode - it receives a message from the control panel and forwards it immediately, events are not buffered and sent later.

Technical specifications

Module power supply	*12 V DC (from the control panel)*
Average current consumption	*approx. 9 mA (depends on the GSM signal strength)*
Peak current consumption	*720 mA*
GSM communication band:	
2G (GSM, EDGE)	*900 / 1800 MHz*
3G	*900 / 2100 MHz (B8, B1)*
4G (LTE)	*800 / 900 / 1800 / 2100 / 2600 MHz (B20, B8, B3, B1, B7)*
I&HAS classification	*Security grade 3 / Environmental class II (according to EN 50131-1)*

*(**Note**: This applies only in combination with a Security-grade-3-certified control panel. For more info about ARC settings, see the Control panel installation manual)*

- Dimensions	*70 x 37 x 25 mm*
- Weight	*23 g*
- Operational environment	*indoor general*
- Operational temperature	*-10 °C to 40 °C*
- Average operational humidity	*75% RH, non-condensing*
- Compatible with RCT (ARC receiver)	*According to communication protocols*
- SPT communicator type	*SPT type Z (control panel expansion module)*
- AS/SPT interface	*Pass-through*

- Supported ATS class/communication protocol:

ATS class [1]	*ATS interface*	*Transmission protocol*
SP2	*GSM-SMS*	*JABLO SMS*
SP3 - SP5	*GSM-GPRS (IP)*	*JABLO IP* *ANSI SIA DC-09*
DP3 [2]	*LAN (IP)* *GSM-GPRS (IP)*	*JABLO IP* *ANSI SIA DC-09*

Notes:

1. *The ATS classes listed in the ATS interface configuration with a transmission protocol is the maximum of what is possible to declare when creating an alarm communication path. The operational classification has to be determined by the installer after the ARC's agreement. The alarm communication path is created according to CLC/TS 50136-7 application guidelines.*
2. *DP3 is supported only in the configuration with the LAN communicator.*

***Warning**: LAN communication provided via WIFI or GSM is considered as radio communication therefore it is not possible to use a GSM communicator and a WIFI WAN network when a DPx path is created.*

***Explanatory notes**:*

SPx: One communication path to an ARC (Single path) = 1 transmission medium

DPx: Dual communication path to an ARC (Dual path) = 2 different transmission media, for example Radio communication (GSM) and Metallic or Optical cables (PSTN, LAN).

Certification body	*Trezor Test s.r.o. (No. 3025), Kiwa Nederland b. v.*
In compliance with	*EN 50130-4, EN 55032, ETSI EN 301 489-1, ETSI EN 301 489-7, EN IEC 62368-1, ETSI EN 301 511, EN IEC 63000, EN 50131-3, EN 50131-10, T 031.*
Caller ID (CLIP)	*ETSI EN 300 089*
Can be operated according to	*CEPT/ECC/DEC/(04)06*

JABLOTRON a.s. hereby declares that the JA-194Y is in a compliance with the relevant European Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com – the Downloads Section.

Note: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.

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