

JA-191Y LTE communicator module

The LTE communicator module is intended to be used with **JA-100Kxx, JA-101Kxx, JA106Kxx and JA-10** security alarm control panels, which are a part of the JABLOTRON series. The JA-191Y LTE communicator is supported by systems with firmware LJ/MD 60424 and by F-Link 2.4.0. or higher. A control panel fitted with a JA-191Y utilizes the cellular network to communicate with an ARC, enables remote control via web and smartphone apps, transmits alarm SMSes and voice messages. It also enables remote configuration of the control panel using the F-Link SW.

Installing the module in the control panel

The module is to be installed directly on the control panel's motherboard using the connector for supplementary modules (see the control panel installation manual).

Installation procedure:

- Update the firmware of the control panel unit to version LJ/MD-60424 or higher
- If the system was equipped with a different external communicator (JA-190X, JA-190Y), it is necessary to disable it within the Communication tab, otherwise (if the communicator in question is no longer installed within the system) disabling the communicator will no longer be possible and the system will report a communication error.
- Disconnect the control panel unit from its power supply (both backup and mains)
- Prepare a suitable micro SIM card.** The SIM must be activated (test its function within a mobile phone). The SIM must have enabled both SMS and data (GPRS, LTE), voice services and CLIP (caller ID). If the SIM card requires a PIN, **disable the PIN function.** The communicator may operate with a pre-paid SIM card, however for optimal function we recommend utilization of a SIM with a monthly plan.
- Insert the SIM** card into the communicator tray.
- Insert the communicator into the system connector on the control panel (use a distance spacer (5) to stabilize it).
- Connect the GSM antenna (included with the JA-191Y) to the connector (6) When installing the antenna, **position** the antenna as illustrated, it is to assure optimal function of the GSM communicator. If the antenna is positioned differently, doing so may result in signal interference, resulting in sub-optimal operation. (It is also possible to utilize the antenna fitted within the control panel unit).

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

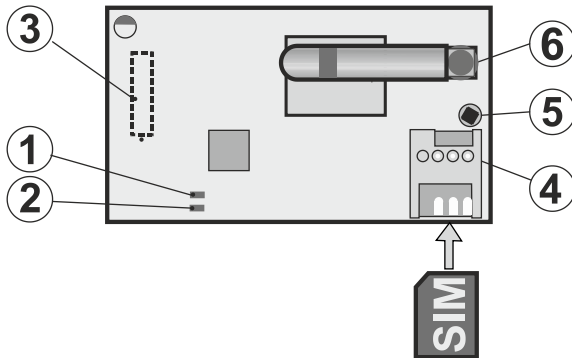


Fig. 1: JA-191Y Communicator

Description: 1. Red LED indicating an operating GSM network; 2. Yellow LED error indication; 3 System connector; 4. SIM card tray; 5. distance spacer; 6. GSM antenna SMA connector

Communicator activation

If the communicator is fitted within the control panel unit and its GSM antenna is connected:

- Connect the control panel's power supply** (backup battery and then the mains electricity). A **flashing red communicator LED** indicates connecting to a GSM network and will stop flashing within 1 minute = **connected**
- If the indicator keeps flashing and the yellow LED also turns on, then disconnect the power supply, insert the SIM card into a mobile phone and make sure the SIM card works correctly.
- Close the control panel case** while remaining in Service mode.
- Configure the communicator settings using F-Link SW (see the Control panel installation manual).

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

Technical specifications

Module power supply	8–15 V DC (from the control panel)
Average current consumption	approx. 22 mA (depends on cellular network signal strength)
Peak current consumption	860 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 2/Environmental class II (according to EN 50131-1)

(Note: this applies only in combination with a security-grade-2-certified control panel. For more info about ARC settings, see the Control panel installation manual)

- Dimensions	82 x 38 x 32 mm
- Weight	29 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
DP4 ²⁾	LAN (IP) GSM-GPRS (IP)	JABLO IP ANSI SIA DC-09

Notes:

- 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.
- DP4 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 (No. 3025)
In compliance with: EN 62368-1, ETSI EN 301 511, EN 50130-4, ETSI EN 301 489-1, ETSI EN 301 489-52, ETSI EN 301 486-19, ETSI EN 301 908-1, ETSI EN 301 908-13, ETSI EN 301 908-2, ETSI EN 303 413, EN 55032, EN 50665, EN 50581, EN 50131-1, EN 50131-3, EN 50131-10, EN 50136-1, EN 50136-2, ANSI SIA DC-09.

Operating conditions: ECC/DEC/(12)01, ERC/DEC/(97)02, ECC/DEC/(06)01



JABLOTRON ALARMS a.s. hereby declares that the JA-191Y is in a compliance with the relevant European Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/E if it is used as intended. The original of the conformity assessment can be found at www.jablotron.com – the Downloads Section.



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