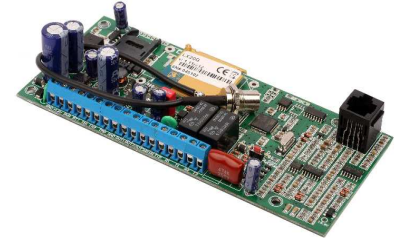


CONTROL PANEL DOWNLOADING OVER GPRS WITH LX20G-3C

Innovative solution to **improve work** and **reduce costs** of installation and service



The most common way to access and setting the control panel is keypad and the connection by using a dedicated cable supplied by the manufacturer. Configuration of the modern control panel performing advanced functions using traditional methods, is often time-consuming and error-prone task. Moreover, problematic is the connection to the telephone network. Our new device is trying to meet these disadvantages by providing new solution - transmitter **LX20G-3C**, which allows for remote access to control panel via GPRS connection.

Traditional downloading

In traditional Control panel downloading, alarm system installer must be equipped with PSTN modem which is used to establish data call to control panel which is connected to PSTN network. Downloading is controlled using Control's Panel configuration application which is supplied by control panel manufacturer. In this approach, there must be PSTN network connected to the control panel on protected premises and alarm system installer needs gain access to PSTN line in order to make programming. In most cases, dedicated PSTN modem is needed to configure particular type of control panel due to fact, that Bell103 protocol isn't very common and it's usage vary between PSTN modems

LX20G-3C – you can better !

Thanks to **LX20G-3C GPRS Transmitter/ GSM Dialer/GSM Gateway** it is possible to make downloading even, when PSTN

network isn't connected to protected premises.

Additionally **no PSTN modem is needed** at installer site. Data is transmitted over the GPRS network which reduces the cost of transmission. Installer must only have access to the LX20G-3C device via OSM server at monitoring station and have access to the network with incoming traffic from LX20G-3C enabled (public IP address or TCP port redirected in case of public APN or connection to corporate private APN). Configuring control panel remotely using LX20G-3C is still performed using control's panel configuration application supplied by control panel manufacturer. Instead of connecting PSTN modem is used ModemEMU application supplied by the EBS. It translates modem communication format to GPRS transmission with LX20G-3C transmitter. LX20G-3C decodes GPRS data and translates it to the Bell103 format used by control panel.

USER BENEFITS:

➤ Costs savings:

- remote technical controls of control panels,
- remote configuration and service;
- GPRS transmission generates even 17 times less cost than CSD connection (Circuit Switched Data)

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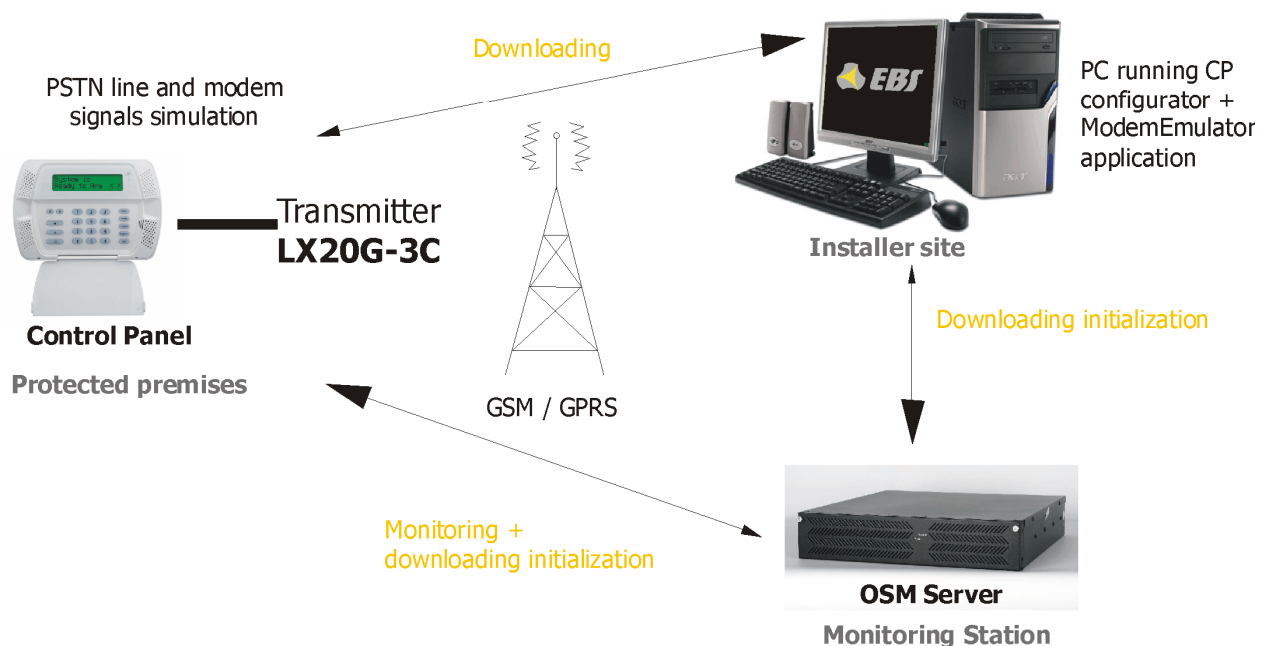
- No need to have a telephone line;
- No need to have a PSTN modem;
- Faster response to any irregularities in the operation of control panel;
- Possibility to check the proper functioning of the control panel from monitoring station;
- Efficient verification of false alarms;
- Supervision over the work quality of the installer.

SUPPORTED TYPES OF CONTROL PANELS:

It is possible to make remote downloading session with any control panel equipped with Bell103/V.21 modem. Successful test has been performed with following control panels:

- | | |
|----------------------|------------------------|
| - Napco Gemini P1632 | - DSC PC4020 |
| - Paradox Evo 48 | - Crow Runner 4 |
| - Satel CA-10 | - Pyronix Matrix 6 |
| - Satel CA-5 | - Pyronix Matrix 424 |
| - Satel Versa5 | - Risco Gti (WISDOM 3) |
| - Satel Integra24 | - GE NX-8 |
| - DSC PC1616 | - GE NX-4 |

Downloading with EBS LX20G-3C transmitter (over GPRS)



Technical Data:

Parameters		LX20G-3C
Transmission channels		Voice GSM, GPRS, SMS, PSTN
Inputs		2 (NO/NC) + 1 SAB (NO/NC)
Phone input compatible with DTMF standard		TES
Outputs		3 (OC, max. load 100mA)
Output functions (ways of control)		- unavailable GSM signal - from server or through SMS - incoming CLIP - in reaction on inputs
Serial interface		RS232 / RS485 (lines: RxD, TxD, RTS, CTS) transmission speed up to 115200bps
Quantity of system events stored in history		5000
Timestamp event		YES (only for events generated from LX)
GPRS/SMS transmission security		AES encryption
Status LEDs (functions)		4 LEDs (GSM signal level, device state, DTMF communication)
Configuration		Remote: GPRS, SMS, CSD Local: PC through RS232 (required cable: LX-PROG)
Remote firmware update		Yes
Supported modems		Cinterion MC55i
Power supply parameters - PCB (without casing)	Voltage supply	13,8V _{DC} (acceptable: 12-14V _{DC})
	Power consumption (average / max)	120mA/550mA@13,8V _{DC}
Power supply parameters - PCB in plastic casing	Voltage supply	230V _{AC} (acceptable: 190-250V _{AC})
	Power consumption (average / max)	3W/20W@230V _{AC}
Charging module functions		In version: PCB in plastic casing - fast battery charging mode - protection against excessive discharge - protection against reverse battery connection - AC failure signalization - low battery/no battery signalization - protection against short circuit battery output - polymer fuse
Backup battery connection		YES, (in version: PCB in plastic casing), lead-acid 12V
Battery charging current		PCB in plastik casing: max. 200mA or max. 1A
Threshold of signaling low AC voltage (at secondary / at primary)		13.5V _{AC} / 160V _{AC} (in version: PCB in plastik casing)
Threshold of signaling low battery voltage		11V _{DC} (in version: PCB in plastic casing)
Cut-off battery voltage level		9,5V _{DC} (in version: PCB in plastic casing)
Dimension		PCB: 163 x 73 x 35mm PCB in plastic casing: 265 x 255 x 85mm

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