



Terminals Manual

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SAFETY INSTRUCTIONS

- When using the device, make sure to follow the legal regulations and local restrictions.
- Do not use the device in hospitals as this may impair the function of medical devices; eg. near pacemakers or hearing aids.
- Read this manual carefully before installation, commissioning and use.
- Do not use the device in an aircraft.
- Do not use the machine near gas stations, chemical plants or in areas where explosives are handled and explosion hazards areas. The device may interfere with some devices.
- The device may cause interference in the vicinity of televisions, radios, and personal computers.
- Use only recommended accessories to prevent damage to the equipment, property, health and violation of relevant provisions. These recommended accessories have been tested and work with the device. However, the warranty does not cover these accessories.
- We recommend that you make a copy or backup of all important settings stored on your SIM card.
- Do not open the device. Only SIM card replacement is allowed. To change the SIM card, see the User's Guide.
- Attention! Keep out of reach of small children who could swallow the SIM card.
- Do not expose the device to extreme environmental conditions. Protect it from dust, moisture, liquid or foreign matter leakage and extreme temperatures.
- Under no circumstances should the voltage on the power connector be exceeded.
- The manufacturer is not responsible for defects caused by using this device in contradiction with the instruction manual!

CONTENTS OF PACKAGE

BGS3 GPRS Terminal / BGS3 GPRS Terminal USB

- 1. 1 pc BGS3 GPRS Terminal / BGS3 GPRS Terminal USB
- 2. 1 pc rail mounting bracket DIN 35 mm with a screw
- 3. 1 pc 2-pin terminal strip MRT9
- 4. 1 pc Warranty list

BGS5 GPRS Terminal JAVA Terminal / EHS5 HSPA JAVA Terminal / EHS6 JAVA Terminal

- 1. 1 pc BGS5 GPRS JAVA Terminal
- 2. 1 pc rail mounting bracket DIN 35 mm with a screw
- 3. 1 pc 2-pin terminal strip MRT9
- 4. 1 pc Warranty list

EGS5 GPRS JAVA Terminal / EGS5 GPRS JAVA Terminal USB

- 1. 1 pc GS5 GPRS JAVA Terminal / EGS5 GPRS JAVA Terminal USB
- 2. 1 pc rail mounting bracket DIN 35 mm with a screw
- 3. 1 pc 2-pin terminal strip MRT9
- 4. 1 pc Warranty list

EES3 EDGE Terminal / EES3 EDGE Terminal USB

- 1. 1 pc ES3 EDGE Terminal / EES3 EDGE Terminal USB
- 2. 1 pc rail mounting bracket DIN 35 mm with a screw
- 3. 1 pc 2-pin terminal strip MRT9
- 4. 1 pc Warranty list

PHS8 HSPA+ Terminal

- 1. 1 pc PHS8 HSPA+ Terminal
- 2. 1 pc rail mounting bracket DIN 35 mm with a screw
- 3. 1 pc 2-pin terminal strip MRT9
- 4. 1 pc Warranty list

PHS8-P HSPA+ Terminal audio

- 1. 1 pc PHS8-P HSPA+ Terminal audio
- 2. 1 pc rail mounting bracket DIN 35 mm with a screw
- 3. 1 pc 2-pin terminal strip MRT9
- 4. 1 pc Warranty list

PLS8 LTE Terminal / PLS8 R.2.1 LTE Terminal / PLS8 R.3 LTE Terminal

- 1. 1 pc PLS8 LTE Terminal
- 2. 1 pc rail mounting bracket DIN 35 mm with a screw
- 3. 1 pc 2-pin terminal strip MRT9
- 4. 1 pc Warranty list

ELS61 LTE JAVA Terminal USB

- 1. 1 pc ELS61 LTE Terminal
- 2. 1 pc rail mounting bracket DIN 35 mm with a screw
- 3. 1 pc 2-pin terminal strip MRT9
- 4. 1 pc Warranty list

BGS3 GPRS Terminal, EGS5 GPRS JAVA Terminal, EES EDGE Terminal



RS232 – Connector for terminal connection via RS232

PWR ~ – Power connection terminals 8 – 30 V AC/DC (polarity does not matter)

LED power diode- LED diode that indicates the power status, it lights up green when the device is turned on



ANT – Antenna for GSM signal reception

SIM – SIM card slot

- LED diode SIM 1:1 terminal not logged into GSM network
 - 1:9 terminal is registered into GSM

network

- USB USB connector for computer connection
 - In the case of the terminal with "USB" in the name, the terminal can also be powered via the USB port

Name	BGS3 GPRS Terminal BGS3 GPRS Terminal USB	EGS5 GPRS Java Terminal EGS5 GPRS Java Terminal USB	EES3 EDGE Terminal EES3 EDGE Terminal USB
GSM module	- Gemalto M2M GmbH Cinterion BGS3	- Gemalto M2M GmbH Cinterion EGS5	- Gemalto M2M GmbH Cinterion EES3
Frequency bands GSM	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz
Communication speed(kbps)	85,6/42,8	85,6/85,6	236,8/236,8
User interface	RS-232, USB	RS-232, USB	RS-232, USB
Operating temperature	-20°C up to +55°C	-20 [°] C up to +55 [°] C	-20°C up to +55°C
Operating temperature	-40°C up to +85°C	-40°C up to +85°C	-40°C up to +85°C
Power voltage	8 – 30 V AC/DC, USB	8 – 30 V AC/DC, USB	8 – 30 V AC/DC, USB
Power consumption	1 W / 3.5 W (receive / transmit)	1 W / 3.5 W (receive / transmit)	1 W / 3.5 W (receive / transmit)
Antenna connector	SMA(f) 50 Ohm	SMA(f) 50 Ohm	SMA(f) 50 Ohm
Dimensions	25 x 54 x 97 mm	25 x 54 x 97 mm	25 x 54 x 97 mm
Mounting	DIN rail 35 mm	DIN rail 35 mm	DIN rail 35 mm
Weight	105 g	105 g	105 g

BGS5 GPRS JAVA Terminal USB, EHS5 HSPA JAVA Terminal, EHS6 JAVA Terminal



RS232 - Connector for terminal connection via RS232

PWR ~ – Power connection terminals 8 – 30 V AC/DC (polarity does not matter)

LED power diode- LED diode that indicates the power status, it lights up green when the device is turned on



ANT – Antenna for GSM signal reception

SIM – SIM card slot

LED diode SIM – 1:1 – terminal not logged into GSM network

– 1:9 – terminal is registered into GSM

network

- USB USB connector for computer connection
 - In the case of the terminal with "USB" in the name, the terminal can also be powered via the USB port

Name	BGS5 GPRS Java Terminal	EHS5 HSPA Java Terminal	EHS6 Java Terminal
GSM module	- Gemalto M2M GmbH Cinterion BGS5	- Gemalto M2M GmbH Cinterion EHS5	- Gemalto M2M GmbH Cinterion EHS6
Frequency bands GSM	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz
Communication speed(kbps)	85,6/42,8	85,6/85,6	236,8/236,8
User interface	RS-232, USB	RS-232, USB	RS-232, USB
Operating temperature range	-20°C up to +55°C	-20 [°] C up to +55 [°] C	-20°C up to +55°C
Operating temperature range	-40°C up to +85°C	-40°C up to +85°C	-40°C up to +85°C
Power voltage	8 – 30 V AC/DC, USB	8 – 30 V AC/DC, USB	8 – 30 V AC/DC, USB
Power consumption	1 W / 3.5 W (receive / transmit)	1 W / 3.5 W (receive / transmit)	1 W / 3.5 W (receive / transmit)
Antenna connector	SMA(f) 50 Ohm	SMA(f) 50 Ohm	SMA(f) 50 Ohm
Dimensions	25 x 54 x 97 mm	25 x 54 x 97 mm	25 x 54 x 97 mm
Mounting	DIN rail 35 mm	DIN rail 35 mm	DIN rail 35 mm
Weight	105 g	105 g	105 g

PHS8 HSPA+ Terminal, PHS8-P HSPA+ Terminal Audio



- RS232 Connector for terminal connection via RS232
- + Power connection terminals 8 30 V DC (polarity must correspond to the engraving)
- GSM LED is inactive after the device is switched on; function can be set by command AT^SLED (option cannot be saved)
- SIM SIM card slot
- PWR LED diode that indicates the power status, it lights up green when the device is turned on

PHS8-P HSPA+ Terminal Audio

PHS8 HSPA+ Terminal



- USB USB connector for connection to computer
- GSM Main Antenna for GSM signal reception
- GPS Antenna for GPS reception
- DIV Diversity antenna to improve GSM signal REP Speaker output
- MIC Microphone input

Name	PHS8 HSPA+ Terminal	PHS8-P HSPA+ Terminal Audio
GSM module	Gemalto M2M GmbH -	Gemalto M2M GmbH - Cinterion
	Cinterion PHS8-E	PHS8-P
Frequency bands GSM	900/1800/2100 MHz	800/850/900/1800/1900/2100 MHz
Communication speed(Mbps)	14,4/5,76	14,4/5,76
User interface	RS-232, USB	RS-232, USB
Operating temperature range	-20 [°] C up to +55 [°] C	-20 [°] C up to +55 [°] C
Operating temperature range	-40°C up to +85°C	-40°C up to +85°C
Power voltage	8 – 30 V DC	8 – 30 V DC
Power consumption	1 W / 3.5 W (receive /	1 W / 3.5 W (receive / transmit)
Antenna connector	SMA(f) 50 Ohm	SMA(f) 50 Ohm
Dimensions	25 x 54 x 97 mm	25 x 54 x 97 mm
Mounting	DIN rail 35 mm	DIN rail 35 mm
Weight	110 g	118 g

PLS8 LTE Terminal, PLS8 Rel.2.1 LTE Terminal, PLS8 Rel.3 LTE Terminal



- GSM LED is inactive after the device is switched on; function can be set by command AT^SLED (option cannot be saved)
- SIM SIM card slot
- + – Power connection terminals 8 30 V DC PWR (polarity must correspond to the engraving)

LED power diode – LED diode that indicates the power status, it lights up green when the device is turned on



- USB USB connector for connection to computer
- GSM Main antenna for GSM signal reception
- GPS Antenna for GPS reception
- DIV Diversity antenna to improve GSM signal

Name	PLS8 LTE Terminal	PLS8 Rel.2.1 / Rel.3 LTE Terminal
GSM module	Gemalto M2M GmbH - Cinterion PLS8	Gemalto M2M GmbH - Cinterion PLS8 Rel.3
Frequency bands GSM	800/900/1800/2100/2600 MHz	800/900/1800/2100/2600 MHz
Communication speed(Mbps)	100/50	100/50
Frequency bands GPS	-	
User interface	USB	RS-232 / USB
Operating temperature range	-20 [°] C up to +55 [°] C	-20 [°] C up to +55 [°] C
Operating temperature range	-40°C up to +85°C	-40°C up to +85°C
Power voltage	8 – 30 V DC	8 – 30 V DC
Power consumption	1 W / 3.5 W (receive / transmit)	1 W / 3.5 W (receive / transmit)
Antenna connector	SMA(f) 50 Ohm	SMA(f) 50 Ohm
Dimensions	25 x 54 x 97 mm	25 x 54 x 97 mm
Mounting	DIN rail 35 mm	DIN rail 35 mm
Weight	98 g	110 g

ELS61 LTE JAVA Terminal USB



Indicator

RS232 – Connector for terminal connection via RS232

PWR ~ – Power connection terminals8 – 30 V AC/DC (polarity does not matter)

LED power diode – LED diode that indicates the power status, it lights up green when the device is turned on



ANT – Antenna for GSM signal reception

SIM – SIM card slot

DIV – Diversity antenna to improve GSM signal

LED diode SIM - 1:1 - terminal not logged into GSM network

- 1:9 - terminal is registered into GSM network

- USB USB connector for computer connection
 - In the case of the terminal with "USB" in the name, the terminal can also be powered via the USB port

Name	ELS61 LTE Terminal USB
GSM module	Gemalto 2M GmbH - Cinterion ELS61
Frequency bands GSM	850/900/1800/1900/2100/2600 MHz
Communication speed(kbps)	100/50
User interface	RS-232 / USB
Operating temperature range	-20 [°] C up to +55 [°] C
Operating temperature range	-40 [°] C up to +85 [°] C
Power voltage	8 – 30 V DC
Power consumption	1 W / 3.5 W (receive / transmit)
Antenna connector	SMA(f) 50 Ohm
Dimensions	25 x 54 x 97 mm
Mounting	DIN rail 35 mm
Weight	102 g



Type of accessory	Name	Code	
	Source 12V / 1A, no connector, free end	AM-RT-FPOWR	
Adaptors	Source 12V / 1A, free end	AO-PWR-1201	
Audpiers	Source 12V / 2,08A, industrial	AO-PWR2512I	
	Source 12V / 1,7A, DIN	AM-RT-DPOWR	
sources	Backup battery 12 V DC/12 V	AM-T-BPACK	
	RS232 to USB (converter)	AM-35T-USRS	
Data cabla	RJ45 to RS232	AM-67-RSRJ45	
Data cable	USB to mini USB	XAM-75T-USUS	
	RS232 to RS232	XAM-75T-RS02	
	GSM/UMTS Stick 90/180, 2 dBi	AO-AGSM-TG09	
Antenna	GSM/UMTS Magnetic 90, 9dBi	AO-AGSM-MG9S10	
GSM / UMTS / LTE	GSM Mounting, Quad-band	AO-AGSM-CAPS25	
	And many more		
	GNSS (GPS/GLONASS) Magnetic	AP-AGNSS-SMA	
Antenna	GPS Adhesiv 30, SMA(m)	AP-AGPS-30S	
GPS / GLONASS	GPS Mounting 32, SMA(m)	AP-AGPS-CAP	
	And many more		
	DIN Bracket - DIN Rail Mount MRT	XWAGO-209120	
	Connector - Terminal Strip Strip	AM-RT-MPOWR	
	Distribution Box - Complete Set	AO-MK67-AC01	
	Distribution Box - Enclosure Only	GTT-ACC-P016-AC03-M	
Ontional	Housing lid - metal	AL-COVER-AC-M	
optional	Housing lid - plastic	GTT-ACC-P007-ACP-M	
accessories	Mounting kits, caps, goretex	GLBAC-WALLMOU-SECC-M	
	membranes	R-14-0016-M	
	And many more		

Terminal connection to PC and its operation

This manual is universal for all mentioned terminals and modems. The manual is written with regard to users with basic knowledge of the issue.

- 1) Unpack the device and connect the antenna (s) properly.
- 2) Insert an activated SIM card that has the PIN code and voicemail deactivated.
- 3) Connect the power supply.
- 4) Connect the RS-232 or USB data cable.
- 5) Follow the connection instructions.

CONNECTION TO PC VIA RS-232

- 1) Připojte sériový kabel k terminalu a k PC
- V operačním systému Windows zvolte: Start -> Ovládací panely -> Systém -> Správce zařízení.
- 3) V záložce Porty (COM a LPT)

Zvolíme komunikační port, do kterého je terminal připojen. Klikneme pravým tlačítkem myši -> Vlastnosti -> záložka nastavení portu



4) Here you can setup the properties:

Bits per second	115200
Data bits	8
Parity	None
Stop bits	1
Flow control	Hardware

Warning software hyperterminal is not the part of the package! It is also not a part of a regular operating system and must be additionally installed. The recommended software are PuTTY, ZOC terminal etc.

- 5) If you selected PuTTY, the session options must be same as the ones in the device.
 The important part is COM port, which serves for communication with the terminal.
- After clicking the Open button, you reach the console window. You can now test the correct connection using AT commands AT and ATI. The device responds with OK and its Firmware version.

Port Settings Driver Details Events Bits per second: 115200 Data bits: 8 Parity: None Stop bits: 1 Flow control: Hardware Advanced... Restore Defaults OK Cancel Reputer Configuration ? \times Category: Session Basic options for your PuTTY session Logging Specify the destination you want to connect to - Terminal Serial li<u>n</u>e Keyboard Speed Bell COM1 115600 Features Connection type: Window ○ Raw OTelnet ORlogin OSSH OSerial Appearance Behaviour Load, save or delete a stored session Translation Saved Sessions Selection - Colours Connection Default Settings Data Load - Proxy Save Telnet Rlogin Delete B SSH Serial Close window on exit-Only on clean exit Always Over Never <u>H</u>elp <u>A</u>bout <u>O</u>pen <u>C</u>ancel

@oem24.inf,%device_name%1;Cinterion BGx USB Com Port1 (COM... ×



CONNECTING TO PC VIA RS-232 USING A USB ADAPTOR

- 1) Connect serial cable with adaptor for USB to terminal and to PC.
- 2) Install the adaptor's driver
- In Windows OS, go to: Start -> Control panels -> System -> Device manager.
- In "Ports (COM & LPT)" tab Select the COM port to corresponding to your terminal. Right click the COM port -> Properties -> Port Settings tab

5) Setup the following:

Bits per second	115200
Data bits	8
Parity	None
Stop-bits	1
Flow control	Hardware

@oem24.inf,%device_name%1;Cinterion B	3Gx USB Com Port1 (COM	×
---------------------------------------	------------------------	---

Genera	Port Settings	Driver	Details	Events		
		Bits pe	er second	115200		~
			Data bits	8		~
				-		
			Parity	None		~
			Stop bits	1		~
		Flo	ow control	Hardware		~
			Ac	lvanced	Restore	Defaults
				0	к	Cancel

Warning software hyperterminal is not the part of the package! It is also not a part of a regular operating system and must be additionally installed. The recommended software are PuTTY, ZOC terminal etc.

- 6) If you selected PuTTY, the session options must be same as the ones in the device.
 The important part is COM port, which serves for communication with the terminal.
- 7) After clicking the Open button, you reach the console window. You can now test the correct connection using AT commands AT and ATI. The device responds with OK and its Firmware version.

Category:		
Session	Basic options for your PuTTY se	ssion
Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection	Specify the destination you want to connect Serial line COM1 Connection type: Raw Ielnet Rlogin SSH Load, save or delete a stored session Saved Sessions	t to Speed 115600
 ⊂ Connection − Data − Proxy − Telnet − Rlogin ➡ SSH 	Default Settings	Load Sa <u>v</u> e Delete
– Senai	Close window on exit: Always Never Only on cl	ean exit

CONNECTION TO PC VIA USB

- 1) Connect the USB cable to the terminal and to PC.
- Install the drivers for your terminal.
 If you do not have a driver in your disposal, you can request it at <u>hotline@sectron.cz</u>
- In Windows OS, go to: Start -> Control panels -> System -> Device manager.
- 4) This step depends on your device. The following example shows steps for connecting to BGS5 terminal. The steps should still be similar with slight variations.

5) Checking the parameters.

Change the COM port speed can be done in properties -> Modem -> Maximum Port Speed. Set up the port speed 115200.

Details		Events	Power Manag	gement
General	Modem	Diagnostics	Advanced	Driver
Port: COMS)			
0				
Speaker vo	lume			
L	ow 📕	Hig	gh	
Maximum F	Port Speed			
	15000			
	15200	Ŷ	- J	
Dial Contro	1			
	Wait for dial t	one before dialing		

Warning software hyperterminal is not the part of the package! It is also not a part of a regular operating system and must be additionally installed. The recommended software are PuTTY, ZOC terminal etc.

- 6) If you selected PuTTY, the session options must be same as the ones in the device.The important part is COM port, which serves for communication with the terminal.
- After clicking the Open button, you reach the console window. You can now test the correct connection using AT commands AT and ATI. The device responds with OK and its Firmware version.

🞉 PuTTY Configuration		? ×
Category:		
Session Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours	Basic options for your PuTTY set Specify the destination you want to connect Serial line COM1 Connection type: Raw Ielnet Rlogin SSH Load, save or delete a stored session Saved Sessions	ssion t to Speed 115600
 □ Connection □ Data □ Proxy □ Telnet □ Rlogin ⊞ SSH □ Serial 	Default Settings	Load Sa <u>v</u> e Delete
	Close window on exit: Always Never Only on cl	əan exit
<u>A</u> bout <u>H</u> elp	<u>O</u> pen	<u>C</u> ancel

Using the terminal as modem

A quick guide for how to use the data connection of the terminal to connect to the internet. For this type of connection, a data-enabled SIM card. Please contact your operator for more information if necessary.

1) Now go to start -> control panels -> device manager.

2) In the Modems tab, select the corresponding modem -> right click -> properties

3) In the advanced tab, put the following to Extra initialization commands:

at+cgdcont=1,"IP","internet.t-mobile.cz"

In case of using a SIM card from an operator other than T-Mobile, use **"internet"** instead of "internet.tmobile.cz" or check the web page of your operator for more information. **ATTENTION! It is necessary for this part to be typed in correctly!** Confirm using the OK button.

General M Extra Settings Extra initializatio at+cgcont=1," Initialization cor sensitive inform modem's instru	lodem Diagnos	cz" the exposure of og. Consult your o details.	nced Drive
Extra Settings Extra initializatio at+cgcont=1," Initialization cor sensitive inform modem's instru	on commands: IP", "internet.t-mobile.c nmands may lead to t ation in the modem lo ction manual for more	the exposure of bg. Consult your o details.	
	Advano Change D	ed Port Settings	 es

4) Next, in control panels go to Network and Sharing Center.

5) Select Set up a new connection or network

$ ightarrow \ \star \ \star \ \star \ All Contro$	ol Panel Items > Network and Sharing Center	✓ ♥ Search Control Panel				
Control Panel Home	View your basic network information and set up connections					
Change adapter settings	View your active networks					
Change advanced sharing settings	SECTRON Private network	Access type: Internet Connections: 📲 Wi-Fi (SECTRON)				
Media streaming options						
	Change your networking settings					
	Set up a new connection or network Set up a broadband, dia-up, or VPN	etwork or VPN connection; or set up a router or access point.				
	Troubleshoot problems					
	Diagnose and repair network problem	ns, or get troubleshooting information.				

See also
Infrared
Internet Options
Windows Defender Firewall

6) Connect to the internet -> Dial-up

÷	🐓 Set Up a Connection or Network	_ □	×	~	Connect to the Internet		×
	Choose a connection option				How do you want to connect?		
	Connect to the Internet Set up a broadband or dial-up connection to the Internet Set up a new network Set up a new router or access point. Image: Manually connect to a wireless network Connect to a hidden network or create a new wireless profile. Image: Connect to a workplace Set up a dial-up or VPN connection to your workplace.				Broadband (PPPoE) Connect using DSL or cable that requires a user name and password. Dial-up Connect using a dial-up modem or ISDN.		
	[Next Car	ncel			(Cancel

Here, enter the following Dial-up phone number: *99***1# (dependent on the operator).
 User name and password can stay blank unless your operator/provider says otherwise. You can also fill in the connection name.

					- 🗆 X
		←	Connect to the Internet		
			Type the information	from your Internet service provid	er (ISP)
			Dial-up phone number:	*99***1#	Dialing Rules
			User name:	[Name your ISP gave you]	
			Password:	[Password your ISP gave you]	
				Show characters	
				Remember this password	
			Connection name:	BGS5 - Test	
			Allow other people to This option allows any I don't have an ISP	use this connection rone with access to this computer to use this	connection.
					Connect Cancel
8)	Click the Conne	ect	button		
					- 🗆 X
		\leftarrow	🝨 Connect to the Internet		
			Connecting to BGS5 -	Test	
			N		
				Dialing *99***1#	
			-		

Skip

Cancel

9) If everything was setup correctly, you should see the following image:

10) Succesful connection to the internet

🖻 🖅 Ġ Google	× + ×	/					- 🔲	8
\leftarrow \rightarrow O C	A https://www.goog	gle.com/			□ ☆	Z∕≡	h ¢	
				Gmail	Obrázky	P	fihlásit se	^
	Q	Goo	ogle					
		Hledat Googlem	Zkusím štěstí					
Cesko Reklama Firma	O společnosti Google	Jak funguje Wyhledávání		Ochrana soukromí	Smluvní po	dmínkv	Nastaven	1
<	o opoloonoon ooogio	san nangajo vymodavani		Contra Controllin	onia ni po	y		>

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