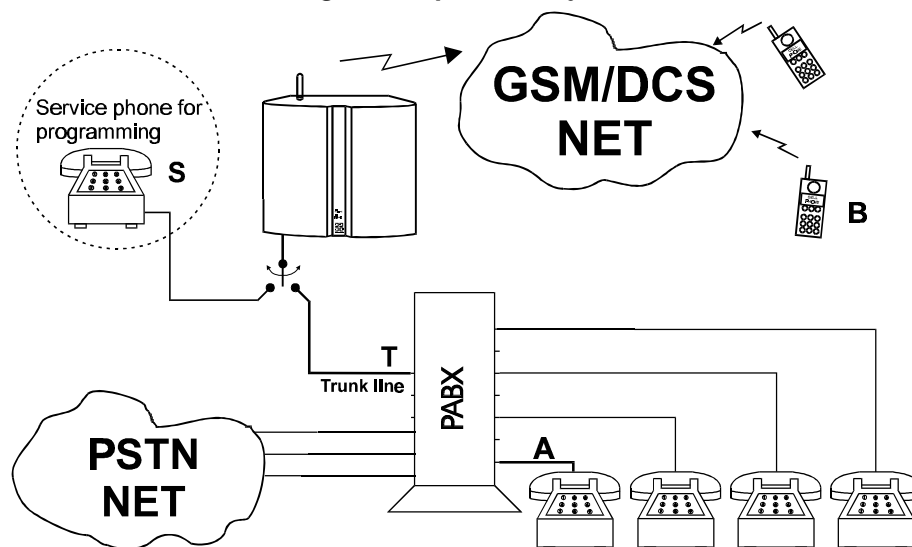


Quick installation guide for Cellink TC35 Standard.

(Connection to PABX analogue Trunk line)

This installation guide describes the minimum requirements for a Cellink installation. Extra functions or set-ups might be needed or wanted, to gain an optimised system, refer to the manual.



- **For first time set-up, disable the PIN-code on your SIM-card:** This should be done using a standard mobile handset.
- **Open the Cellink Box / Insert the SIM-Card:** Dismount the screw on the box (placed in the lower right corner). Place the SIM-card (after removal of the PIN-code) as shown later in this document. If you require the PIN-code to be enabled in the final system, it is easy to enable PIN-code when all other set-ups are done. If so, then first enter the PIN-code into the Cellink (via HOTKEY), and then re-enable the pin-code on you SIM-Card, using a standard mobile.
- **Switch on and test:** Connect a standard ordinary analogue phone as Service phone **S** to the 2nd plug from left on the Cellink, refer to the drawing. Turn on the power for Cellink and wait until both Light Emitting Diodes (LED's / service, and power) are illumination green. When the Service LED is green, the Cellink is registered on the mobile net and ready for use. Lift the handset on the service phone **S** and check that you hear a dial tone. Make a phone call from the Service phone **S** to a PSTN/MS number for checkout.
- **Connect PABX Trunk line to Cellink:** Connect the analogue Trunk line **T** from the PABX to the 2nd plug from left on the Cellink. *Please note! When doing HOTKEY programming or direct tests, then the Service phone **S** should be temporary connected to the Trunk plug (2nd plug) instead of the PABX.*
- **Echo Canceling: (Learning the impedance for the used PBX).** Make a call from phone **A** to PABX Trunk Line **T**, as are connected to the Cellink. When you hear a dial tone press **###*113388*** on phone **A** and the Echo Canceling will start. It's important that you mute the microphone phone **A**, if possible, so you don't disturb the calibrating. This test will take about 4-8 min. A less accurate and short time calibration can be done via the hotkey **###*113399***, however it is in general recommended to use the long calibration method. The Cellink automatic restarts when calibration is done.
- **Check the Echo Canceling:** Make a call from phone **B** to the Cellink, when PABX is ringing (incoming call), then establish the conversation to phone **A**. Check that when you speak into phone **B** you don't hear an echo.

Now you are finish with the minimum requirements for the Cellink. To program other features like Quick Dial, Fixed Dial, Inbound/Outbound numbers etc., use the Service Phone **S**.

The following gives other guidance for quick and optimal Cellink installation.

- **Polarity Reversal at B-Answer:** Some PABX'es require that the Trunk line makes an polarity reversal, when the other ends establish the conversation (B-Answer). This can be done via the HOTKEY function:
31 34 * Enable reversal polarity when B-answer
32 04 * Interpret B-answer as entering the conversation state.
- **Program Quickdial with local mobile routing characteristics / or closed user group (VPN):**
Quickdial eliminates the waiting period, on 4-5 sec., from the point when dialling to the Cellink ends and until the dialled number is routed into the GSM net. **The following is an example only for a network numbering plan as:** Dial to mobiles from PSTN has the following format: 077123456, where 07 denoted routing for mobile telephony. Quick dial can for the above **example**, be programmed as: **##75 01 09 3 07**, where: **##75 01** = Quickdial position 1, **09** = total count of digit, **3** = Quickdial Match type for 2 digits, **07** = The two match digits for dial to mobile. ← **Example only**. Refer to the manual. The quick dial can be tested via the Service phone **S**. If the Cellink is member of closed user group (VPN), where for instance only 3-4 digits should be dialled within the group, you should program the Hotkeys for VPN enable, VPN outgoing line digit (normal 0), and count of digits dialled within the group.
- When all the programming is done, you should restart the Cellink by pressing **# *** on the Service phone. Then the programmed parameters will be in force.

Note.: The phone line on the Cellink is an analogue Trunk line (not ISDN), for PABX trunk line connection, or for connection of ordinary telephones.

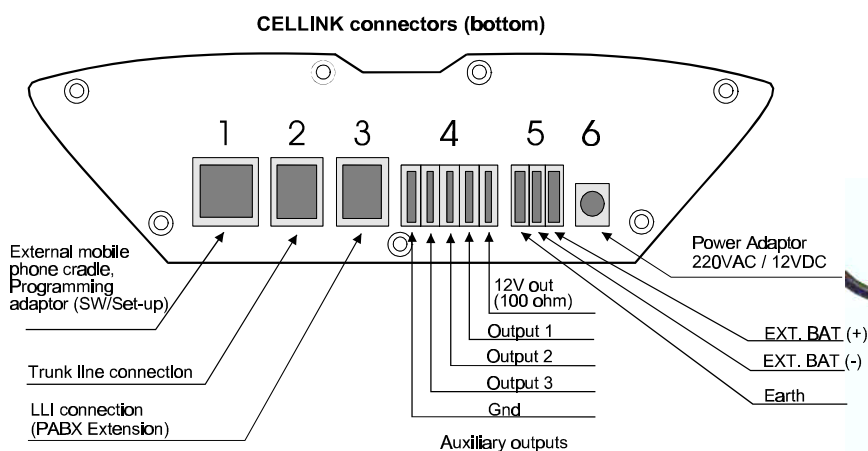
The Service Phone should be a standard analog ordinary phone.

If you want to set the Cellink back to factory settings (Trunk), use the Service Phone S and press ##7988*. This will set the Cellink to default for Trunk, and erase all your programming - so use this command with caution.

HOTKEY programming codes as are relevant for Cellink standard analogue Trunk:

##	75	XX YY Z C(C) XX	*	01.06	QUICKDIAL: XX=Position YY=count of digits Z=type C(C)=Match digit(s) Clear position XX
##	76	XX	*	01.06	QUICKDIAL position in use, check with tone response
##	70	00	*	01.06	VPN disable
##	70	01	*	01.06	VPN enable (Closed user group)
##	70	1X	*	01.06	VPN outgoing line digit (X: 0-9)
##	70	2X	*	01.06	VPN numbers of digits, used within the group (x: 2-5)
##	79	XXX X	*	01.06	PTN, Protected dial no. X= Position YY: Match digits d1 & d2 Clear
##	79	99	*	01.06	Dial system clear (VPN, PSTN, PTN and QD) Clear all
##	94	X(X)(X)	*	01.20/22	Digit(s) in front of dial function, disable = 999
##	96	0X 99	* *	01.29	Remove 1 st digit X, if first digit = X Clear setting - no remove
##	31	10	*	1000	25Hz ring
##	31	11	*	1000	50Hz ring
##	31	20	*	1000	Disable progress tone
##	31	21	*	1000	Enable progress tone
##	31	58	*	01.51	Normal Onhook detection time, allowing flash and pulse dial.
##	31	59	*	01.51	Ultra Quick Onhook/Offhook detection time for special purpose.
##	33	0X	*	31.26 01.27	Line drop time, when disconnect. 0=disable/0-9 times 200 mS
##	34	00	*	01.29	Disable Polarity reversal for incoming calls
##	34	01	*	01.29	Enable Polarity reversal for incoming calls
##	38	XY	*	01.12	Tone type (X: type, Y:times) Recommends: 02
##	34	12	*	01.51	Enable announcement of Call Line Identification.
##	34	13	*	01.51	Disable announcement of CLI Call Line Identification (hidden dial / no phone number announcement) (Network method 1)
##	34	14	*	01.55	Disable announcement of CLI Call Line Identification. (Network method 2)

##	30	06	*	01.16	PULSE DIAL disable
##	30	07	*	01.16	PULSE DIAL enable
##	30	08	*	01.16	When pulse dial, 10 pulses => dig (0) (normal)
##	30	09	*	01.16	When pulse dial, 1 pulse => dig(0) (special)
##	34	07	*	01.29	Normal incoming & outgoing calls enabled
##	34	08	*	01.29	Disable outgoing calls (only incoming allowed)
##	34	09	*	01.29	Disable incoming calls (only outgoing allowed)
##	79	88	*	01.16	CLEAR ALL settings for default TRUNK line connection (Analog)
#	4799#	xxxx	*	1000	Pincode enable with SIM Card pincode xxxx
#	4799#	9999	*	1000	Pincode disable.
##	34	40	*	01.34	Disable Transmit +6dB gain (for TC35) back to 0 dB
##	34	41	*	01.34	Enable Transmit +6dB gain (for TC35)
##	34	42	*	01.34	Disable Receive +6dB gain (for TC35) back to 0 dB
##	34	43	*	01.34	Enable Receive +6dB gain (for TC35)
##	34	04	*	01.29	No FLASH w/ Service indicator
##	34	05	*	01.29	FLASH w/ Service indicator when OFF HOOK
##	34	06	*	01.29	FLASH w/ Service indicator when Conversation
##	00	xxxx	*	01.47	Enter Hotkey Access code (if protection enabled) (x=0-9)
##	99	xxxx	*	01.47	Enable Hotkey Protection Access code (x=0-9) (Please also refer to Hotkey code ## 00 xxxx *)
##	99	9999	*	01.47	Remove/disable Hotkey Protection
##	20	99	*	01.45 01.51	Antenna Signal Level on Service Indicator (TC35) -100 dBm or less 1 flash Very poor -100 → -92 dBm 2 flash Poor - 92 → -84 dBm 3 flash Acceptable - 84 → -76 dBm 4 flash Good - 76 → -70 dBm 5 flash Good+ - 70 → -64 dBm 6 flash Good++ - 64 → -58 dBm 7 flash Good++ -58 dBm or greater 8 flash Best signal, but maybe to high
#*					Reset the Cellink, the programmed features will be in force.



Cellink are designed for newer low-volts types of SIM-cards, (3 volt or less).
If you use a 5 Volt SIM-Card type, the Cellink TC35 module will not accept the SIM-Card, and the Cellink will never register on the GSM-net (no service)

