

SIEMENS

ICM MP AD RD

Car Kit Professional (Bluetooth)

Used ATC Commands

Distribution List

Name (alphab.)

Department

Location

History

Version	Date (yy-mm-dd)	Name	Changes
		Ebert	Draft
	02-10-29	Ebert	Added: ATE0, ATQ0, ATV1, AT^SPBG=?, AT^SDBR=?, AT+CNMI, AT^SMGR, +CMTI:, alarm indication
	02-11-15	Ebert	Added AT+BINP to list of unused Bluetooth specific AT commands.
	02-11-26	Ebert	Added AT+COPS? Added AT+CPBS="LD" Added AT+CPBR=x,y
	02-12-19	Ebert	Extensions to AT+CHLD... command.
	03-01-13	Ebert	Added AT+CPBS=? Added AT+CPBS="MC" Added AT+CPBS="SM"
	03-01-14	Ebert	Added: AT+CSCS=? AT+CSCS="GSM" AT+CSCS="UCS2" AT+CPBR=?
	03-02-03	Ebert	Added: AT+CLVL=? AT+CLVL? AT+CLVL=<level>
	03-03-20	Ebert	Added: A deidcated command to start/stop voice recognition via interfaces other than bluetooth. Added: A command to inform the Bluetooth manager of the phone that the connected accessory is a car kit.
	03-03-27	Ebert	Removed: AT^SPBC... AT^SLNG AT+CNMI AT^SMGR Removed: New command to seek first address book entry index beginning with a given character (or next available). Similar to AT^SPBC
	03-04-23	Ebert	Added: ATDL AT+CPBS="RC"
0.13	03-05-20	Ebert	Removed: URC +CMTI:...

			^SACD (Alarm indication)
0.14	03-06-16	Ebert	Added AT+BRSF, which was introduced in Bluetooth HFP Spec 1.0
0.15	03-07-15	Ebert	Cleanup: Removed unneeded commands from list (commands which had already been marked before with format 'strikethrough').
0.16	03-07-21	Ebert	Added AT^SPBS="CS"
0.17	03-07-21	Ebert	+BSIR not required in cradle mode.
0.18	03-10-08	Ebert	Added information for identification command (AT^SABD) and authentication URC (^SABD).
0.19	03-11-11	Ebert	Added information for cradle mode voice recognition commands.
0.20	03-11-19	Ebert	Added +CPIN for cradle mode.
0.21	03-12-03	Ebert	AT+CPBS? shall support the parameters <used> and <total>. AT+BVRA and +BVRA are not required if phone does not support voice recognition.
0.22	04-04-25	Ebert	Extending SDBR command by an alphanumeric parameter describing the phone book type is not required anymore. Added details about the command SPBA (Get current default book). Removed authentication command (AT^SABD...). Added CLCC test command. Added SPBS test command. Added URCS NO_DIALTONE and NO_CARRIER.
0.23	04-05-19	Ebert	Added CMUT command Added BUSY URC

Blue entries denote changes to previous version of this document.

Red entries denote extensions to existing commands or completely new commands.

Commands specified in Hands Free Profile			
Command	Usage	BT Mode	Cradle
ATA	Accept incoming call	X	X
ATDdd.dd;	Dial number	X	X
ATDL	Dial last number. Only required in non-bluetooth mode if phone does not support LD phone book.	-	X
AT+BLDN	Dial last number (only used in conjunction with 3 rd party phones) (BT specific command)	X	-
AT+BRSF=30	Bluetooth report and retrieve supported features. Report the following: Local ECNR: Not Supported, Three-Way-Calling Features: Supported, CLI Representation: Supported, Voice Recognition Activation: Supported, Remote Volume Control: Supported	X	-
AT+BVRA...	Enable / disable voice recognition (BT specific command). Command is not required if phone does not support voice recognition.	X	X
AT+CCWA...	Enable 'call waiting notification' URC	X	X
AT+CHLD=2	Handle waiting calls → Swap active / waiting / held call	X	X
AT+CHLD=?	Test command. Check availability of multi party call service.	X	X
AT+CHUP	End call, end call set up	X	X
AT+CIND=?	Retrieve mapping of indicators	X	X
AT+CIND?	Get current status of indicators (→ call status)	X	X
AT+CLIP=1	Enable CLIP	X	X
AT+CMER...	Enable indicator events (call status, ...)	X	X
AT+VGS	Send current speaker gain to mobile phone. (BT specific command)	X	-
URCs specified in Hands Free Profile			
Command	Usage	BT Mode	Cradle
OK		X	X
ERROR		X	X
RING	Incoming call URC. Handle incoming calls	X	X
+CCWA	Incoming call URC. Handle waiting calls. This URC shall also contain alphanumeric representation of the waiting line. Not covered in HF profile! This is an extension to the specification of the HF profile!	X	X
+CIEV...	Indicator event URC. Call handling. (Battery / network status)	X	X
+CLIP: "..."	Display number (and possibly name) of calling line. This URC shall also contain the alphanumeric representation of the calling line. This is an extension to the specification of the HF profile!	X	X
+BVRA	Voice recognition termination URC. Voice recognition handling. URC is not required if phone does not support voice recognition.	X	X
+VGS	URC. Set speaker gain in car kit.	X	-
+BSIR	URC. In-band ringing tone settings of mobile phone have changed.	X	-
Commands NOT specified in Hands Free Profile			
Command	Usage	BT Mode	Cradle
AT	Test / Reset AT-C interface	X	X
ATE0	Switch off echo.	-	X
ATQ0	Display acknowledgements.	-	X
ATV1	Display acknowledgements as text (verbose mode).	-	X
AT+CLCC=?	CLCC test command	X	X
AT+CLCC	Read number and name of current call.	X	X

AT+CLVL=?	Check availability of command and volume level range	-	X
AT+CLVL?	Check current volume level	-	X
AT+CLVL=<level>	Set new volume level	-	X
AT+CMUT=?	Check availability of mute command (cradle mode)	-	X
AT+CMUT?	Check current state of uplink mute (cradle mode)	-	X
AT+CMUT=x	Set state of uplink mute (cradle mode)	-	X
AT+CPIN=?	Check PIN status	-	X
AT+CPBS=?	Test command. Check which books are available	X	X
AT+CPBS?	Read the currently selected phone book storage and the usage status. The response shall comprise the parameters <used> and <total>.	X	X
AT+CPBS="LD"	Select the LD (last dialled) phone book.	X	X
AT+CPBS="MC"	Select the MC (missed calls) phone book.	X	X
AT+CPBS="RC"	Select the RC (received calls) phone book	X	X
AT+CPBS="SM"	Select the SIM phone book.	X	X
AT+CPBR=?	Check the valid range of book indexes (including empty ones)	X	X
AT+CPBR=x,y	Read entries of the selected phone book (used for reading the LD "last dialled" and MC "missed calls" phone book.	X	X
AT+CSCS=?	Get list of available character sets.	X	X
AT+CSCS="GSM"	Activate character set GSM	X	X
AT+CSCS="UCS2"	Activate character set UCS2	X	X
AT+COPS?	Read current network operator	X	X
AT^SPBG=?	Get number of phone book entries	X	X
AT^SPBG=x	Get phone book entry with index x.	X	X
AT^SPBS=?	SPBS test command	X	X
AT^SPBS="CS"	(Re-)select "common sorted" phone book as this is not possible with AT+CPBS...	X	X
AT^SDBR=?	Get number of address book entries	X	X
AT^SDBR=x	Get address book entry with index x. This command should be extended in such a way, that it could output the number type also as an alphanumeric text string in the current MMI language. This behaviour could be implemented as a settable mode.	X	X
	NEW commands (to be implemented)		
AT^SPBA=?	'Get current default book' test command	X	X
AT^SPBA?	Get current default book (Is address book or phone book active?)	X	X
AT^SVRA=...	Start/stop voice recognition (Same function and parameters as AT+BVRA, available only via Bluetooth). Command is not required if phone does not support voice recognition.	-	X
AT^SABD=...	Command to inform the Bluetooth manager of the phone that the connected accessory is a car kit. Inform phone about type of accessory (=car kit). Phone shall use information to select car kit audio parameters and preferably route in-band ringing tones to car kit.	X	-
	URCs NOT specified in Hands Free Profile		
BUSY		X	X
NO DIALTONE		X	X
NO CARRIER		X	X
^SABD ...	Authentication command / URC. Mobile can check if peer device is Siemens or 3 rd party. Unauthenticated car kits shall only have reduced voice recognition feature level (if the phone has voice recognition at all). → Authentication is not required anymore.	X	-
^SVRA	Voice recognition has started/stopped (Same function and parameters as +BVRA, available only via Bluetooth). URC is not required if phone does not support voice recognition.	-	X
	Unused commands of Handsfree Profile		

Command	Usage	BT Mode	Cradle
AT+BINP	Connect a telephone number to a voice tag. (BT specific command)	-	-
ATD>nnn;	Standard ATC command. Memory dialling. nnn (Dial the telephone number from the current telephone book location number nnn.)	-	-
AT+NREC	Disable NR EC of mobile phone. (BT specific command)	-	-
AT+VGM	Send current microphone gain to mobile phone. (BT specific command)	-	-
AT+VTS	Standard ATC command. DTMF generation	-	-
		-	-
+VGM	URC. Set microphone gain in car kit. (BT specific command)	-	-

Draft