

5. QUICK GUIDE

5.1. AT COMMANDS AND S REGISTERS DESCRIPTION

5.1.1. AT Commands list and V.25bis equivalents

Command	Description	Default	SNM49	SNM50	SNM54	Store	V.25bis
AT	Attention	n.a.	*	*	*	n/a	
A/	Repeat Last AT Command	n.a.	*	*	*	n/a	Not available
A	Answer Connection	n.a.	*	*	*	S14	Auto-answer
B	Full-Duplex/Half Duplex mode	0	*	*	*	S27	Forced B0
C	Carrier Sending	1	*	*	*	S99-	Forced C0
D	Dial Command	n.a.	*	*	*	n/a	CRN
E	Echo ON/OFF	1	*	*	*	S14	EON/EOF
F	Line speed selection	0	*	*	*	S31,S33	Transparent
H	On-Hook	n.a.	*	*	*	S99-	Forced H0
I	Inquiry	n.a.	*	*	*	n/a	Not available
L	Speaker Volume	2	*	*	*	S22	Transparent
M	Speaker Control	1	*	*	*	S22	Transparent
Nn&Z	Store Telephone Number in position "n"	n.a.	*	*	*	n/a	PRN
Nn?	Display Stored Number "n"	n.a.	*	*	*	n/a	RLNxx
O	On-Line	n.a.	*	*	*	S99-	Not available
Q	Quiet Mode	0	*	*	*	S14	Transparent
Sr=	Set Register "r"	n.a.	*	*	*	n/a	Not available
Sr?	Read Register "r"	n.a.	*	*	*	n/a	Not available
V	Verbose Result Codes	1	*	*	*	S14	Forced V1
X	Extended Result Codes	1	*	*	*	S22	Forced X4
Y	Long Space Disconnect	0	*	*	*	S20	Transparent
Z	Recall User Configuration	n.a.	*	*	*	n/a	Not available
&A	Multistandard Control	0	*	*	*	S32	Transparent
&C	C107-C109 Control	0	*	*	*	S21	Transparent
&D	C108 Options	0	*	*	*	S21	Forced &D2
&E	Error Correction	0	*	*	*	S70	Transparent
&F	Recall Factory Configuration	n.a.	*	*	*	n/a	Not available
&G	Guard Tone Selection	2	*	*	*	S23	Transparent
&H	Auto Leased Line Handshake	1		*	*	S32	Forced &H0
&I	Buffer Selection	1	*	*	*	S31	Transparent
&K	Modem Flow Control	3	*	*	*	S32	Transparent
&L	Leased Line/Switched Network Selection	0		*	*	S27	Forced &L0
&M	Asynchronous/Synchronous Mode	0	*	*	*	S27	Transparent (*V0-1); Forced &M3 (*V2)
&N	Display Telephone Number Directory	n.a.	*	*	*	n/a	RLN
&P	Make/Break Ratio	0	*	*	*	S22	Transparent
&Q	Asynchronous/Synchronous	0	*	*	*	S27	see &M
&R	C106 ON/Control in Synchronous Mode	0	*	*	*	S70	Transparent

Command	Description	Default	SNM49	SNM50	SNM54	Store	V.25bis
&S	Enable/Disable Front Panel	1	*	*	*	S32	Transparent
&T	Test Mode	4	*	*	*	S21	Transparent
&U	DTE Flow Control	0	*	*	*	S33	Transparent
&V	Dumb Mode Control	0	*	*	*	S14	Forced &V1
&W	Store User Configuration	n.a.	*	*	*	n/a	Not available
&X	Synchronous Clock Source	0	*	*	*	S27	Transparent
&Y	Command Port	0	*	*	*	S31	Forced &Y0
&Z	Store a phone number	n.a.	*	*	*	n/a	PRNxx:yy
*B	Display Blacklist Numbers	n.a.	*	*	*	n/a	RLD,RLF
*C	Display configuration	n.a.	*	*	*	n/a	Not available
*D	Asynchronous C108/1 Mode	0	*	*	*	S21	Forced *D2
*E	Data Compression	1	*	*	*	S29	Transparent
*F	Line Flow Control	0	*	*	*	S33	Transparent
*G	Calling Tone	0	*	*	*	S33	Forced *G1
*I	DTE speed selection	0	*	*	*	S35	Transparent, CSPxxx
*K	C106 and XON/XOFF options	0	*	*	*	S58	Transparent, XON/ XOFF
*L	Transmit level For switched line	10	*	*	*	S74	Transparent
*N	Display C108/1 Stored Number	n.a.	*	*	*	n/a	C108/1 number
*O	Overspeed Selection	0	*	*	*	S29	Transparent
*P	C107 Control	0	*	*	*	S24	Transparent
*Q	Signal Quality Action Control	1	*	*	*	S55	Transparent
*S	S-Register Status Display	n.a.	*	*	*	n/a	Not available
*T	C140-C141 Control	0	*	*	*	S24	Transparent
*V	Enter V.25bis Mode	n.a.	*	*	*	S24	HAY
*X	Sync. Clock Control	1	*	*	*	S29	Transparent (*V0-1), Forced *X1 (*V2)
*Y	Break Mode Control	0	*	*	*	S35	Transparent
*Z	Store V.25bis C108/1 Number	n.a.	*	*	*	n/a	C108/1 number
#A	Autoreliable Buffer/Character Control	0	*	*	*	S56	Transparent
#B	Dial Line Back-up Control	0		*	*	S54	Forced #B0
#E	Detection Phase Control	1	*	*	*	S56	Transparent
#F	Minimum speed connection	0	*	*	*	S79	Transparent
#H	Half Duplex Simulation (V.13)	0	*	*	*	S55	Transparent
#K	XON/XOFF Control in retrain	1	*	*	*	S57	Transparent
#P	Handshake Break	0	*	*	*	S56	Forced #P1
#Q	B.E.R. Threshold	1	*	*	*	S55	Transparent
#T	Remote Control	5	*	*	*	S29	Transparent
#V	Special mode	0	*	*	*	S56	Transparent
#W	Dialling prefix control	0	*	*	*	S58	Forced #V0
#X	Extended Code	1	*	*	*	S54	If #X3 Transparent, else Forced #X0
!L	Transmit level in leased line	10		*	*	S74	Not available
+++	Escape Sequence	n.a.	*	*	*	n/a	Not available

Symbol “-” means that the register is not saved in NVRAM.

5.1.2. Dial Commands List and V.25bis equivalents

Parameter	Description	Default	Store	V.25bis
0-9	Dial digits	n/a	n/a	PRN
*,#	DTMF used only	n/a	n/a	PRN
N	Selects stored telephone number	n/a	n/a	CRSxx
P	Pulse dialling	P	S14	CRN
R	Reverse mode	n/a	S14	Not available
T	DTMF dialling	P	S14	CRN
W	Wait for dial tone	n/a	n/a	"."
@	Wait for quiet	n/a	n/a	Not available
:	Return to Command mode	n/a	n/a	Not available
,	Pause (see S8)	n/a	n/a	"<" , "=" , ">"
/	Wait for 1/8 sec.	n/a	n/a	Not available
!	On Hook for 1/2 sec.	n/a	n/a	Not available

5.1.3. AT&Z Parameters List and V.25bis equivalents

Parameter	Description	Default	V.25bis
0-9,*,#	used with ATD commands	n/a	PRN
<Ctrl>T	Enter a TX string	n/a	Not available
<Ctrl>R	Wait For RX string	n/a	Not available
<Ctrl>P	Enter a 0.5 sec. pause	n/a	Not available
<Ctrl>C	Enter a Call-Back number	n/a	Not available
<Ctrl>D	Disconnect after handshake	n/a	Not available
<Ctrl>N	Wait For Call-Back number	n/a	Not available
<Ctrl>Fn	Recall Factory configuration	n/a	Not available
<Ctrl>Zn	Recall User's configuration	n/a	Not available
<....>	Secure Test	n/a	Not available
.....	Mnemonic Delimiters	n/a	Not available

5.1.4. Clock and Notebook Commands list

Not available on SNM49

Command	Description
ATW=DW-DD/MM/YY-hh:mm:ss	Clock set-up
ATW?	Display time and date
ATW99	Notebook debug
AT%CO	Display weekly notebook
AT%C1	Display periodic notebook number 1
AT%Cn	Display periodic notebook number n (1-9)
AT%D0	Delete weekly notebook
AT%D0=(DW,DW,...-*-*)	Delete daily action into the weekly notebook (0)
AT%D0=(*-hh:mm-*)	Delete hour action into the weekly notebook (0)
AT%D0=(*-*-c)	Delete into the weekly notebook (0) the clock configuration c
AT%Dn	Delete periodic notebook number n (1-9)
AT%Dn=(*-*-DW,DW,...-*-*)	Delete into the n periodic notebook daily configuration
AT%Dn=(*-*-*-hh:mm-*)	Delete into the n periodic notebook time configuration
AT%Dn=(*-*-*-*-c)	Delete into the n periodic notebook clock configuration (CONF)
AT%Kn=(Cx,Rx,Fx)	Edit clock configuration (CONF) n
AT%Kn	Erase clock configuration (CONF) n
AT%K99	Erase all clock configurations (CONF)
AT%L	Load last clock configuration (CONF)
AT%M0=(DW,DW,...-hh:mm-c)	Weekly notebook configuration
AT%Mn=(DD/MM/YY-dd/mm/yy-DW,DW,...-hh:mm-c)	Periodic notebook configuration
AT%On	Solar/Summer time
AT%O?	Display Solar/summer time
AT%W0	Notebook disable
AT%W1	Notebook enable
AT%W?	Display notebook status (enabled/disabled)

5.1.5. List of Registers

Reg. (*)	Range	Unit	Def.	Description	SNM49	SNM50/54	V.25bis
S0	* 0-255	RING	00	Ring to answer on	*	*	Forced S0=2
S1	0-255	RING	00	Ring Count	*	*	Initialized S1=0
S2	* 0-127	ASCII	43	Escape code character	*	*	Not available
S3	* 0-127	ASCII	13	Carriage Return character	*	*	Forced S3=13
S4	* 0-127	ASCII	10	Line feed character	*	*	Forced S4=10
S5	* 0-127	ASCII	08	Back space character	*	*	Forced S5=8
S6	* 0-255	1 sec	03	Wait for dial tone	*	*	Forced S6=3
S7	* 0-255	1 sec	45	Wait for data carrier	*	*	Forced S7=60
S8	* 0-255	1 sec	02	Pause time for comma	*	*	Not available
S9	* 0-40	100 ms	06	Answer tone detection time	*	*	Forced S9=6
S10	* 1-255	100 ms	07	Lost carrier to hang-up delay	*	*	Transparent
S11	* 50-255	1 ms	70	DTMF Dialling speed	*	*	Transparent
S12	* 0-255	20 ms	50	Escape Sequence code guard time	*	*	Not available
S13	* 0-255	1 sec	08	Time out wait for dial tone	*	*	Transparent
S14	* 0-255	—	170	Bit mapped options register	*	*	See commands
S15	*	—	—	Not used			
S16	* 0-255	—	00	Modem test options register	*	*	See commands
S17	* 0-255	1 sec	02	Time monitor line quality	*	*	Transparent
S18	* 0-255	1 sec	60	Test timer	*	*	Not available
S19	* 0-255	—	02	Autosync	*	*	See commands
S20	* 0-255	—	255	Autosync	*	*	See commands
S21	* 0-255	—	04	Bit mapped options register	*	*	See commands
S22	* 0-255	—	70	Bit mapped options register	*	*	See commands
S23	* 0-255	—	136	Bit mapped options register	*	*	See commands
S24	* -255	—	07	Bit mapped options register	*	*	See commands
S25	* 0-255	1 sec	05	C108 delay (Sync only)	*	*	Forced S25=5
S26	* 0-255	10 ms	02	C105 (RTS) to C106 (CTS) delay	*	*	Transparent
S27	* 0-255	—	00	Bit mapped options register	*	*	See commands
S28	* 0-255	1 min	30	Lookback timer		*	Not available
S29	* 0-255	—	72	Bit mapped options	*	*	See commands
S30	* 0-255	—	00	Data mode format; bit mapped register	*	*	Transparent
S31	* 0-255	—	128	Bit mapped options register	*	*	See commands
S32	* 0-255	—	99	Bit mapped options register	(●)	*	See commands
S33	* 0-255	—	00	Bit mapped options register	*	*	See commands
S34	* 0-255	—	00	DIGICOM internal use	*	*	Not available
S35	* 0-255	—	00	Bit mapped options	*	*	See commands
S36	* 0-255	1 sec	255	Inactivity Timer transmitted data	*	*	Transparent
S37	* 0-255	1 sec	255	Inactivity Timer received data	*	*	Transparent
S38	* 0-255	—	00	ATI1 response value	*	*	Not available
S39	* 0-255	ASCII	17	X ON character for &K and *F	*	*	Transparent
S40	* 0-255	ASCII	19	X OFF character for &Kand *F	*	*	Transparent

Reg. (*)	Range	Unit	Def.	Description	SNM49	SNM50/54	V.25bis
S41 *	—	—	—	Not used			
S42 *	0-255	1 sec	00	Wait time for callback in backup		*	Not available
S43 *	0-19	—	255	Autologon pointer for call-back	*	*	Not available
S44 *	0-19	—	255	Remote control security sequence pointer	*	*	Not available
S45 *	1-255	10 ms	200	Length of break signal	*	*	Transparent
S46 *	—	—	00	DIGICOM internal use	*	*	Not available
S47 *	0-255	1 sec	10	Timer Retrain	*	*	Transparent
S48 *	0-127	ASCII	13	Error Correction fallback character	*	*	Transparent
S49 *	0-255	ASCII	17	XON character for &U command	*	*	Transparent
S50 *	0-255	ASCII	19	XOFF character for &U command	*	*	Transparent
S51 *	—	—	—	Reserved for Network Management			
S52 *	—	—	—	Not used			
S53 *	0-255	1 sec	255	Time-Out for busy modem with C108 Off	*	*	Transparent
S54 *	0-255	—	08	Bit mapped options register	(●)	*	See commands
S55 *	0-255	—	21	Bit mapped options register	*	*	See commands
S56 *	0-255	—	32	Bit mapped options register	*	*	See commands
S57 *	0-255	—	36	Bit mapped options register	*	*	See commands
S58 *	0-255	—	00	Bit mapped options register	*	*	See commands
S59 *	0-255	—	00	Bit mapped options register	*	*	See commands
S60 *	0-9	—	255	Different configuration for dial up line during back-up operations (only for answer modem)	(●)	*	Not available
S61 *	0-255	—	03	Number of retrains in S62 sec to disconnect	*	*	Transparent
S62 *	1-255	1 sec	60	Retrain counting	*	*	Transparent
S63 *	0-99	—	0	C108/1 phonebook pointer	*	*	Not available
S64 *	—	—	—	Not used			
S65 *	0-9	—	9	First configuration pointer for Down -Load	*	*	Transparent
S66 *	0-9	—	255	Second configuration pointer for Down-Load	*	*	Transparent
S67 *	0-255	1 sec	255	C105 antistreaming timeout	*	*	Transparent
S68 *	0-255	1 sec	255	C109 Off Time with controlled carrier	*	*	Transparent
S69 *	0-255	—	8	Bit mapped options register	See commands		
S70 *	0-255	—	0	Bit mapped options register	See commands		
S71 *	—	—	—	Not used			
S72 *	—	—	—	Not used			
S73 *	0-255	1 sec	60	Fall-Forward Delay	*	*	Transparent
S74 *	0-255	—	153	TX level in SW and LL		*	Transparent
S75 *	—	—	—	Reserved for Network Management			
S76 *	—	—	—	Not used			
S77 *	0-255	—	00	Bit mapped options register (special)		*	Not available
S78 *	0-255	—	00	Bit mapped options register (special)		*	Transparent
S79 *	0-255	—	00	Bit mapped options register	*	*	See commands

5.2. FACTORY CONFIGURATION

Modem SNM49

AT	Equivalent
<i>AT&F</i>	<i>Default</i>
AT&F1	AT&E6#E1&C1&U5&K3S0=2
AT&F2	AT&M1&C1*P1
AT&F3	AT&M1&C1*P1&R0*V2
AT&F4	AT&C1&D2&U5&K1S0=2
AT&F5	AT&C1&U5&K1S0=2
AT&F6	AT&C1&D2&U5&K2S0=2
AT&F7	AT&C1 &U5&K2S0=2
AT&F8	AT&M1&C1*P1&Y1
AT&F9	ATS0=1S78=1#T4

Modem SNM50

AT	Equivalent
<i>AT&F</i>	<i>Default</i>
AT&F1	AT&E6#E1&C1&U5&K3S0=2
AT&F2	AT&M1&C1*P1
AT&F3	AT&M1&C1*P1&R0*V2
AT&F4	AT&L2&H1&C0&M1F18*Q2#B2S0=1
AT&F5	AT&L2&H1&C0&M1F18*Q2#B2S0=0
AT&F6	AT&L2&H1&C0&M1F10*Q2#B2S0=1
AT&F7	AT&L2&H1&C0&M1F10*Q2#B2S0=0
AT&F8	AT&M1&C1*P1&Y1
AT&F9	ATS0=1S78=1#T4

Modem SNM54

AT	Equivalent
<i>AT&F</i>	<i>Default</i>
AT&F1	AT&E6#E1&C1&U5&K3S0=2
AT&F2	ATE0Q0#X2#P0%N2*I13
AT&F3	AT&M1&C1*P1&R0*V2
AT&F4	AT&L2&H1&C0&M1F18*Q2#B2S0=1
AT&F5	AT&L2&H1&C0&M1F18*Q2#B2S0=0
AT&F6	AT&L2&H1&C0&M1F10*Q2#B2S0=1
AT&F7	AT&L2&H1&C0&M1F10*Q2#B2S0=0
AT&F8	AT&M1&C1*P1&Y1
AT&F9	ATS0=1S78=1#T4

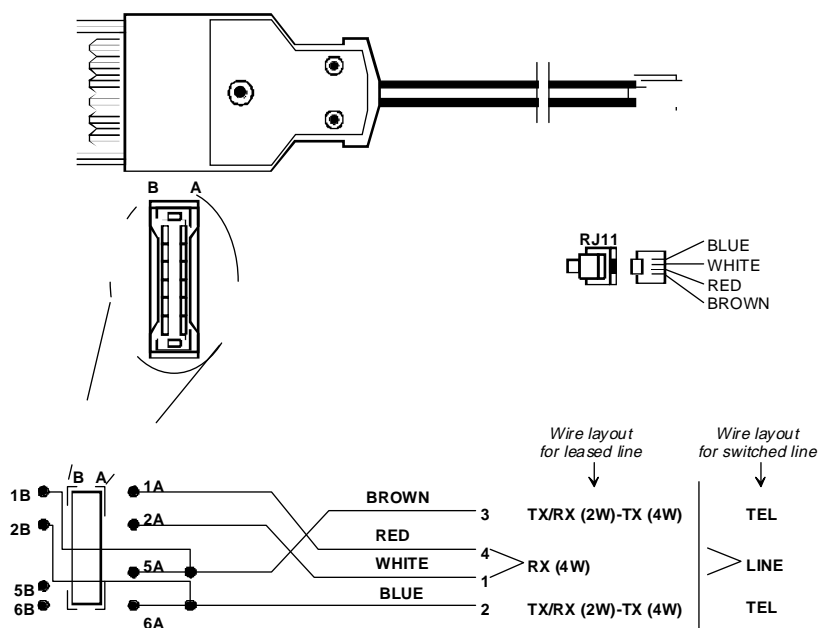


Fig. 5.1. Standard cable with six contacts plug (Aethra)

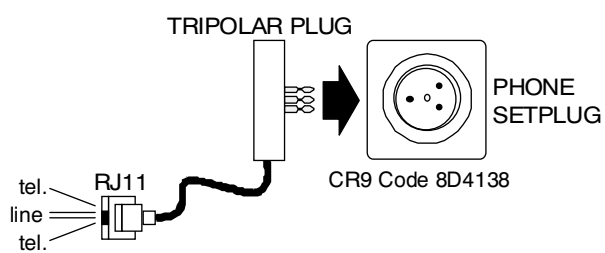


Fig. 5.2. Cable for CR9 tripolar phone setplug

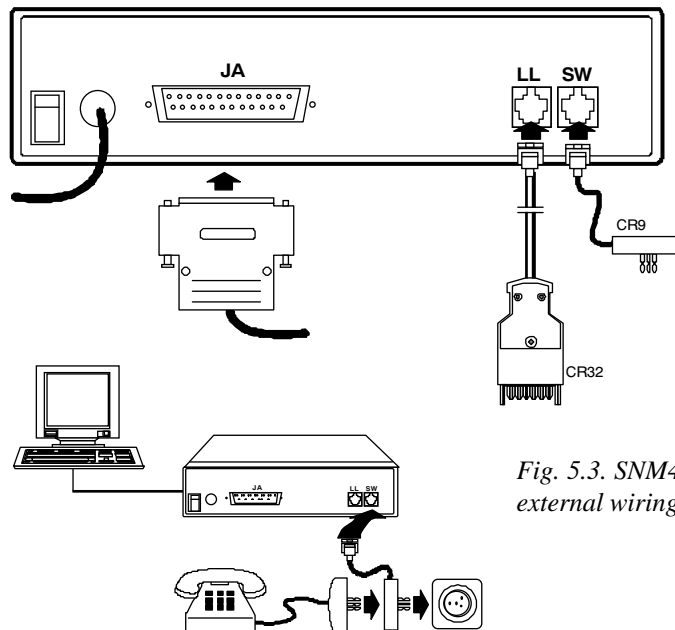


Fig. 5.3. SNM49 and SNM50 external wirings

Fig. 5.4. SNM54 external wirings

