



Micro/5 ADT Polling Interface Board

Introduction

This board is designed to control up to 16 ADT Autoterms.

- Currently, only **Picture Perfect** Version 1.5 or later using the Micro/5-PX or the Micro/5-PXN CPU board and **Secure Perfect** Version 2.1 or later using the Micro/5 PX CPU board support the ADT Polling Interface board.
- Only one ADT Polling Interface board is supported per micro. As a result, the address range for the Autoterms which is 00 to 63 will have to be reduced to 1 to 16. Therefore, the addresses of pre-installed Autoterms may have to be changed.

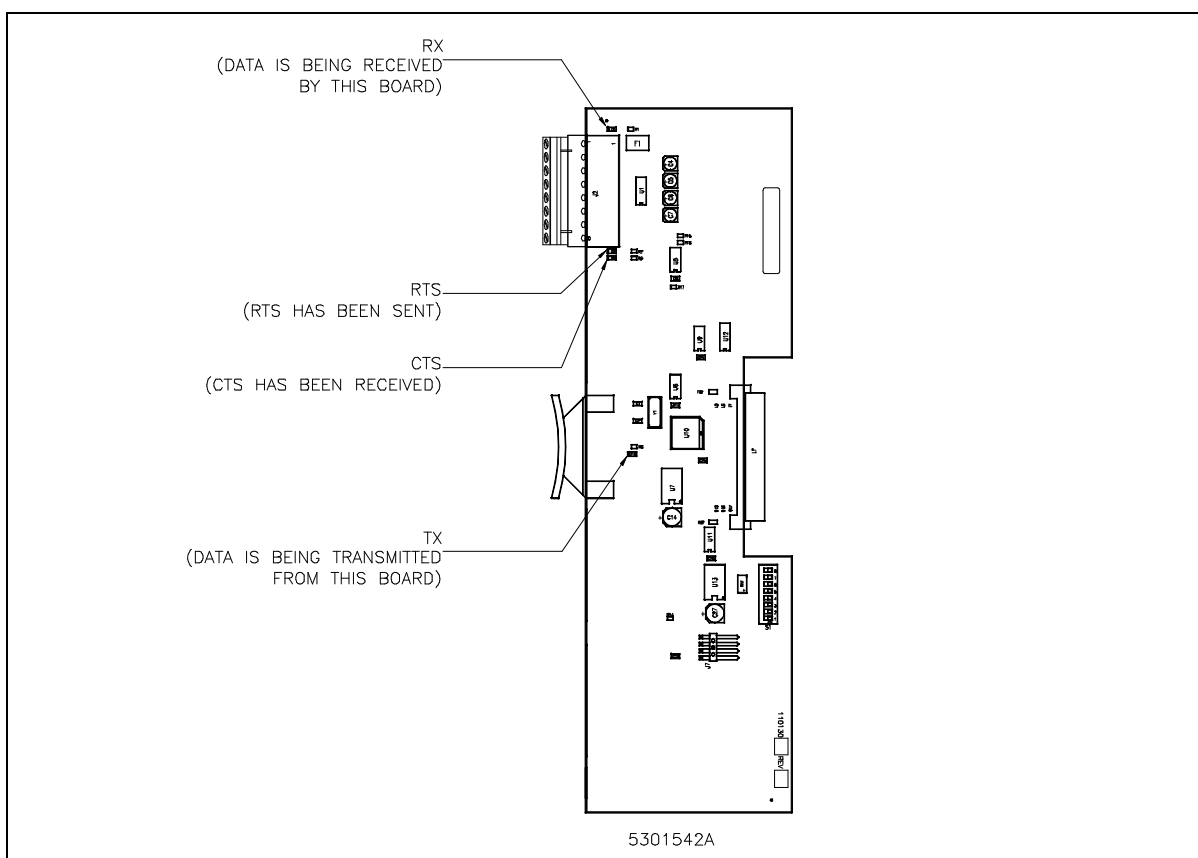


Figure 1: Layout of the ADT Polling Interface Board

Converting Autoterm Input Point Addresses

When connecting ADT Autoterm type controls to a CASI-RUSCO **Picture Perfect** or **Secure Perfect** system, the database must be entered in a format recognizable to that host software. The following charts indicate the **Picture Perfect** or **Secure Perfect** board and point address equivalent for each possible Autoterm input point which the system is capable of monitoring.

To use Table 1:

1. First select the Autoterm address from the left column.
2. Then select the input point number from the top.
3. The block where these points intersect is the host system board and point number.

For example: Autoterm 6, input point 14 would be entered as board 3, address 45 in the **Picture Perfect** database.

Table 1: Picture Perfect Addressing for Input Points

AUTOTERM ADDRESS	INPUT POINT															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31
2	1-32	1-33	1-34	1-35	1-36	1-37	1-38	1-39	1-40	1-41	1-42	1-43	1-44	1-45	1-46	1-47
3	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	2-30	2-31
4	2-32	2-33	2-34	2-35	2-36	2-37	2-38	2-39	2-40	2-41	2-42	2-43	2-44	2-45	2-46	2-47
5	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31
6	3-32	3-33	3-34	3-35	3-36	3-37	3-38	3-39	3-40	3-41	3-42	3-43	3-44	3-45	3-46	3-47
7	4-16	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	4-31
8	4-32	4-33	4-34	4-35	4-36	4-37	4-38	4-39	4-40	4-41	4-42	4-43	4-44	4-45	4-46	4-47
9	5-16	5-17	5-18	5-19	5-20	5-21	5-22	5-23	5-24	5-25	5-26	5-27	5-28	5-29	5-30	5-31
10	5-32	5-33	5-34	5-35	5-36	5-37	5-38	5-39	5-40	5-41	5-42	5-43	5-44	5-45	5-46	5-47
11	6-16	6-17	6-18	6-19	6-20	6-21	6-22	6-23	6-24	6-25	6-26	6-27	6-28	6-29	6-30	6-31
12	6-32	6-33	6-34	6-35	6-36	6-37	6-38	6-39	6-40	6-41	6-42	6-43	6-44	6-45	6-46	6-47
13	7-16	7-17	7-18	7-19	7-20	7-21	7-22	7-23	7-24	7-25	7-26	7-27	7-28	7-29	7-30	7-31
14	7-32	7-33	7-34	7-35	7-36	7-37	7-38	7-39	7-40	7-41	7-42	7-43	7-44	7-45	7-46	7-47
15	8-16	8-17	8-18	8-19	8-20	8-21	8-22	8-23	8-24	8-25	8-26	8-27	8-28	8-29	8-30	8-31
16	8-32	8-33	8-34	8-35	8-36	8-37	8-38	8-39	8-40	8-41	8-42	8-43	8-44	8-45	8-46	8-47

To use Table 2:

1. First select the Autoterm address from the left column.
2. Then select the input point number from the top.
3. The block where these points intersect is the **Secure Perfect** point number.
The board number will always be Board 1.

For example: Autoterm 6, input point 14 would display as *mm-1-94 DI* in the **Secure Perfect** database where *mm* is the micro number, 1 is the board number, and 94 is the point number.

Table 2: Secure Perfect Addressing for Input Points

AUTOTERM ADDRESS	INPUT POINT															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
2	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
3	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
4	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
5	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
6	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
7	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
8	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
9	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
10	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
11	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
12	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
13	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208
14	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
15	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
16	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256

Converting Autoterm Output Point Addresses

When connecting ADT Autoterm type controls to a CASI-RUSCO **Picture Perfect** or **Secure Perfect** system, the database must be entered in a format recognizable to that host software. The following chart indicates the **Picture Perfect** or **Secure Perfect** board and point address equivalent for each possible Autoterm output point which that host software is capable of controlling.

To use Table 3:

1. First select Autoterm address from the left column.
2. Then select the output point number from the top.
3. The block where these points intersect is the **Picture Perfect** board and point number.

For example: Autoterm 6, output point 3 would be entered as board 3, address 26 in the **Picture Perfect** database.

Table 3: Picture Perfect Addressing for Output Points

AUTOTERM ADDRESS	OUTPUT POINT							
	1	2	3	4	5	6	7	8
1	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
2	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31
3	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
4	2-24	2-25	2-26	2-27	2-28	2-29	2-30	2-31
5	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
6	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31
7	4-16	4-17	4-18	4-19	4-20	4-21	4-22	4-23
8	4-24	4-25	4-26	4-27	4-28	4-29	4-30	4-31
9	5-16	5-17	5-18	5-19	5-20	5-21	5-22	5-23
10	5-24	5-25	5-26	5-27	5-28	5-29	5-30	5-31
11	6-16	6-17	6-18	6-19	6-20	6-21	6-22	6-23
12	6-24	6-25	6-26	6-27	6-28	6-29	6-30	6-31
13	7-16	7-17	7-18	7-19	7-20	7-21	7-22	7-23
14	7-24	7-25	7-26	7-27	7-28	7-29	7-30	7-31
15	8-16	8-17	8-18	8-19	8-20	8-21	8-22	8-23
16	8-24	8-25	8-26	8-27	8-28	8-29	8-30	8-31

To use Table 4:

1. First select Autoterm address from the left column.
2. Then select the output point number from the top.
3. The block where these points intersect is the **Secure Perfect** point number.
The board number will always be Board 1.

For example: Autoterm 6, output point 3 would display as *mm-1-43 DO* in the **Secure Perfect** database, where *mm* is the micro number, 1 is the board number, and 43 is the point number.

Table 4: Secure Perfect Addressing for Output Points

AUTOTERM ADDRESS	OUTPUT POINT							
	1	2	3	4	5	6	7	8
1	1	2	3	4	5	6	7	8
2	9	10	11	12	13	14	15	16
3	17	18	19	20	21	22	23	24
4	25	26	27	28	29	30	31	32
5	33	34	35	36	37	38	39	40
6	41	42	43	44	45	46	47	48
7	49	50	51	52	53	54	55	56
8	57	58	59	60	61	62	63	64
9	65	66	67	68	69	70	71	72
10	73	74	75	76	77	78	79	80
11	81	82	83	84	85	86	87	88
12	89	90	91	92	93	94	95	96
13	97	98	99	100	101	102	103	104
14	105	106	107	108	109	110	111	112
15	113	114	115	116	117	118	119	120
16	121	122	123	124	125	126	127	128

DIP Switches

The DIP switches are described in the tables below. See the “Installer Wiring Diagrams” on page 7 for details on switch settings.

Table 5: Board Address

	S1-1	S1-2
Board 1 [†]	ON	OFF

[†]. Only Board 1 is supported.

Table 6: Delay

	S1-3
No Delay	OFF
Transmit Delay of 80 msecs	ON

Table 7: S1-4 and S1-5

S1-4 and S1-5 are reserved for future use.

Table 8: Baud Rate to Connect to ADT Autoterm Units

	S1-6	S1-7	S1-8
75	OFF	OFF	OFF
150	OFF	OFF	ON
300	OFF	ON	OFF
600	OFF	ON	ON
1200	ON	OFF	OFF
2400	ON	OFF	ON
4800	ON	ON	OFF
9600	ON	ON	ON

ADT Autoterms

Each ADT Autoterm has sixteen inputs: 14 are supervised DI points, one is a tamper, and one is a combination AC power failure and logical communications failure alarm. In addition, each ADT Autoterm has eight outputs.

Point 1 on each Autoterm is defined as the communications failure alarm and point 2 is defined as tamper. By enabling point 1 in the **Picture Perfect** database, you are requesting that the micro look for this unit while polling. By disabling alarm 1, you are defining the unit as not installed so the micro will not look for this unit while polling.

If an Autoterm does not answer three polls in a row, alarm 1 for that unit will be sent to the **Picture Perfect** host. While keeping the other units on this micro in constant communications, the unit in error will be polled about every two minutes. When the unit starts responding again, a reset message for alarm 1 will be passed to the host.

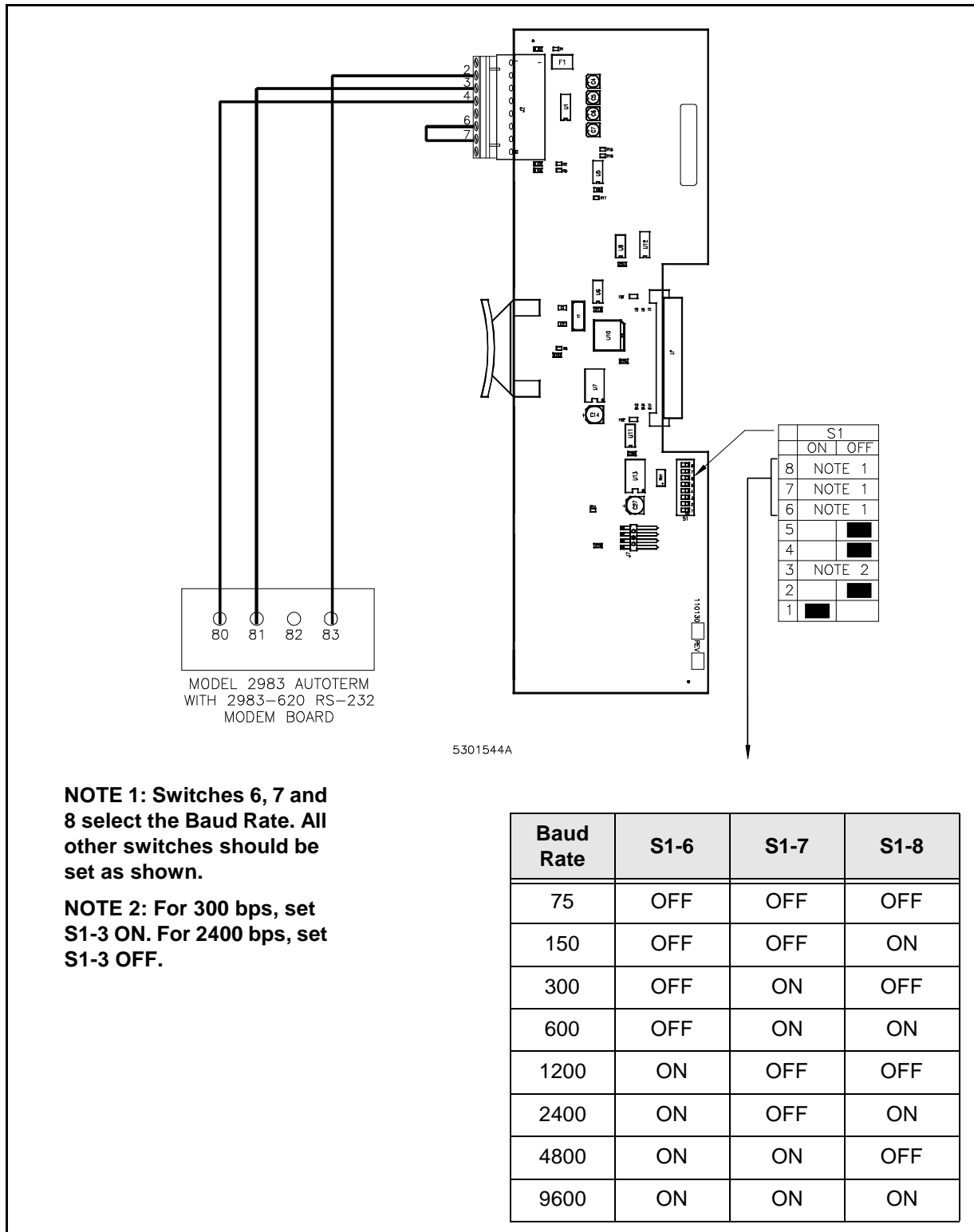
Installer Wiring Diagrams

There are four different configurations. Refer to the list below for the page number that contains the desired wiring diagram.

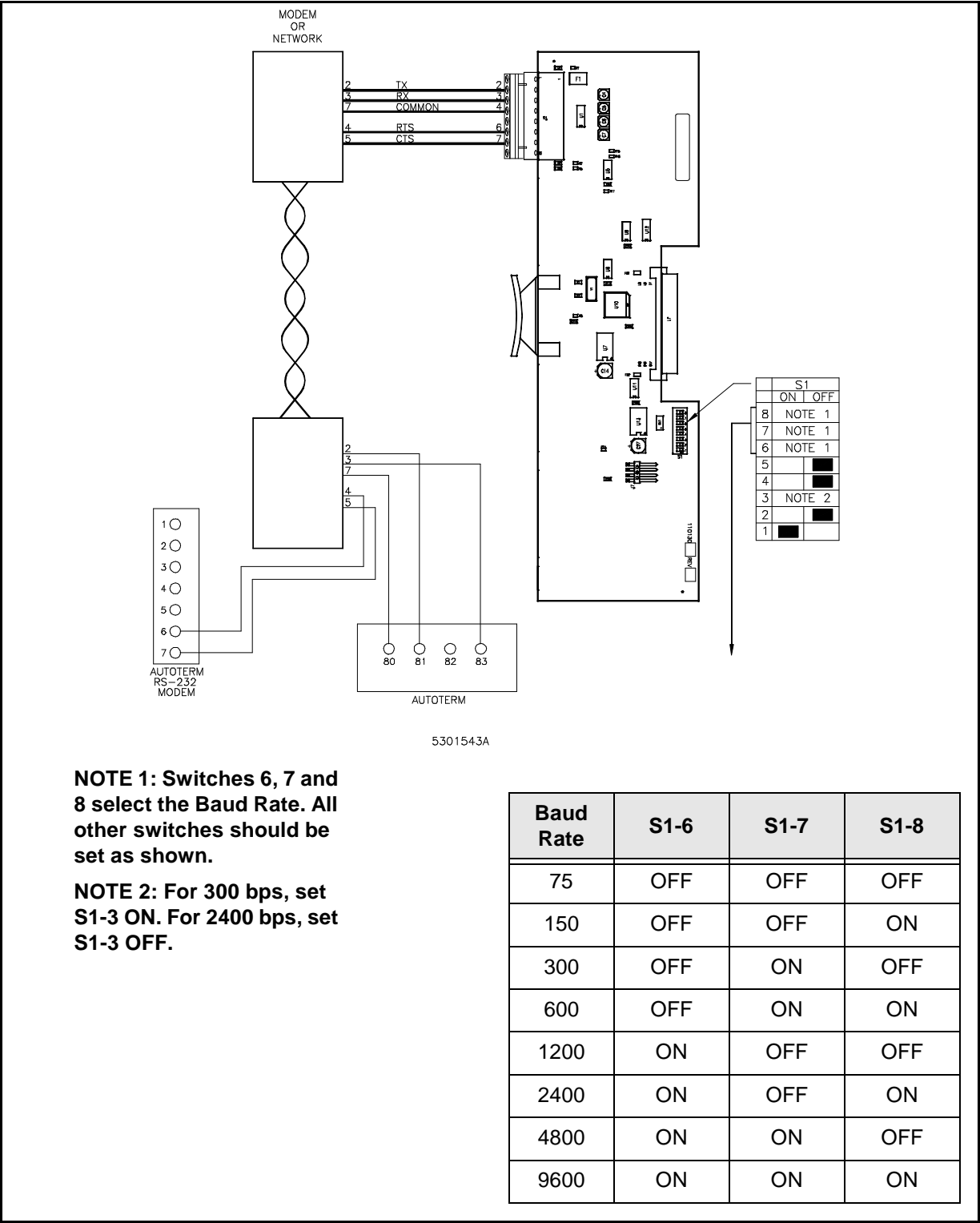
RS-232 connection to ...

- 2983 Autoterm, see page 8.
- Limited distance modems or customer network to 2983 Autoterm, see page 9.
- Focus 75-P Autoterm, see page 10.
- Limited distance modems or customer network to Focus 75-P Autoterm, see page 11.

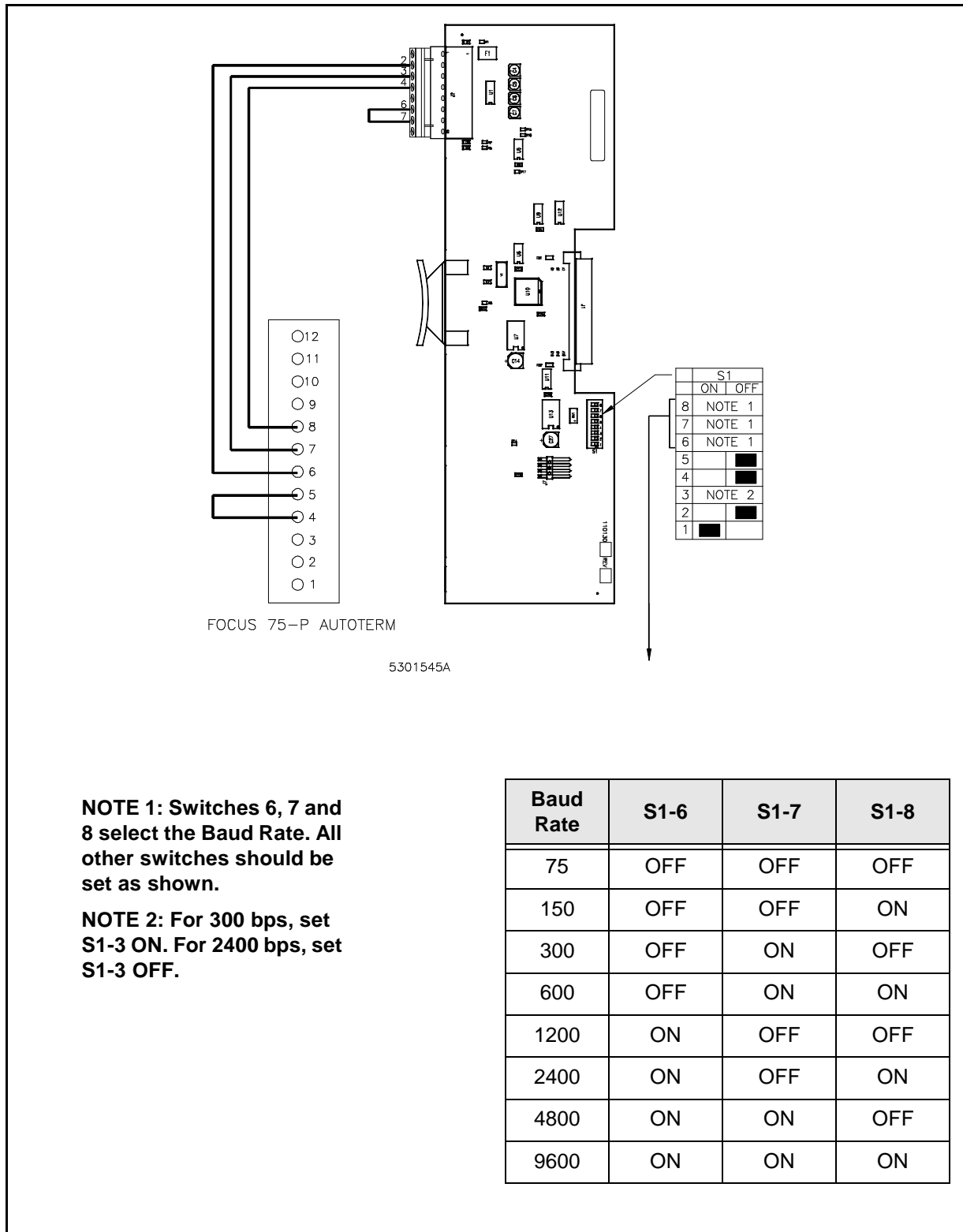
RS-232 Connection to 2983 Autoterm



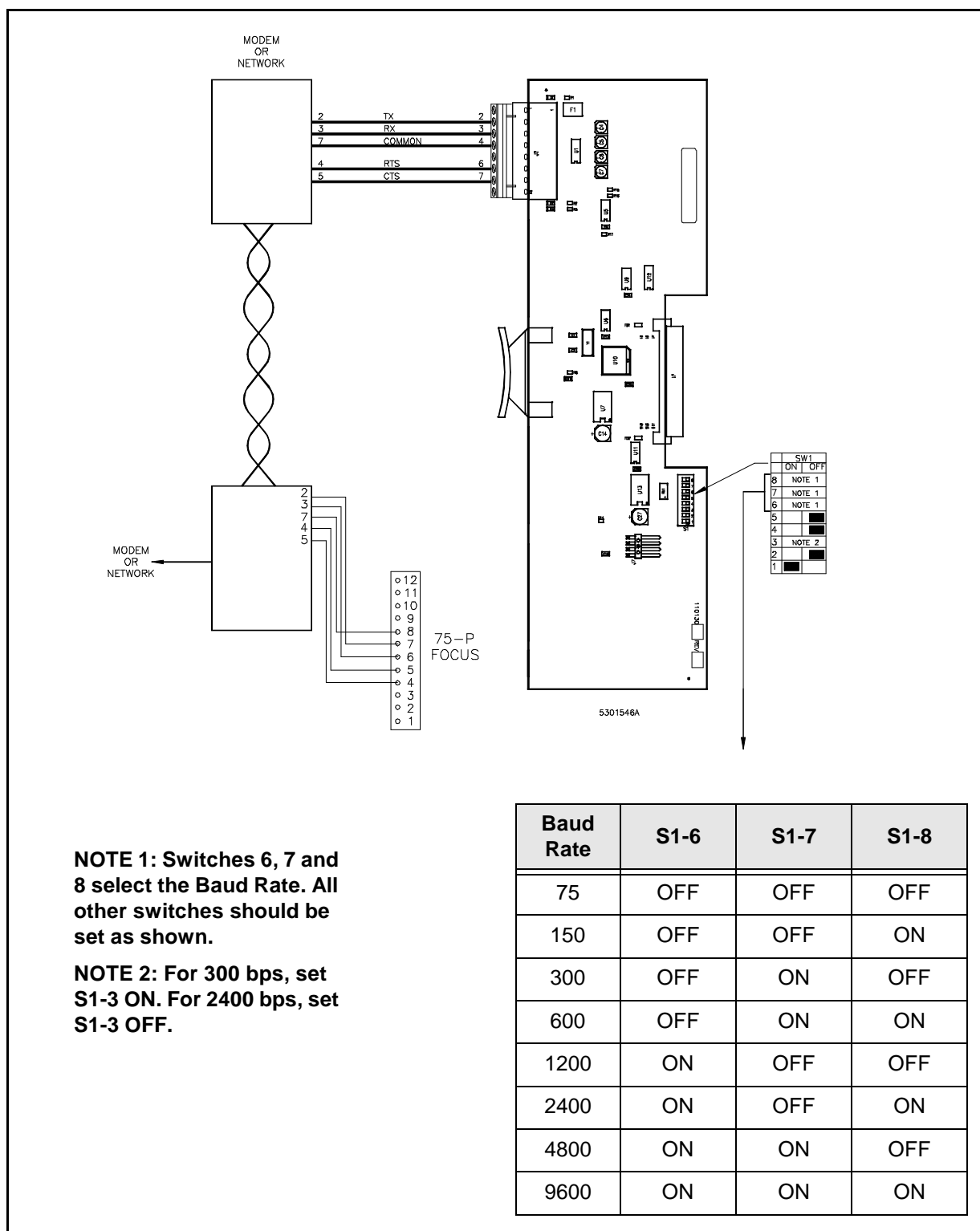
RS-232 Connection to Limited Distance Modems or Customer Network to 2983 Autoterm



RS-232 Connection to Focus 75-P Autoterm



RS-232 Connection to Limited Distance Modems or Customer Network to Focus 75-P Autoterm



NOTES