

LTC 4304 Series

Alligro System Transceivers

How to Connect - Application Note

Overview

The following information provides details for the different configuration possibilities for the LTC 4304 Alligro System Transceivers.



Note: You should note all the safety warnings and cautions detailed in the Installation Instructions booklet supplied with the unit.

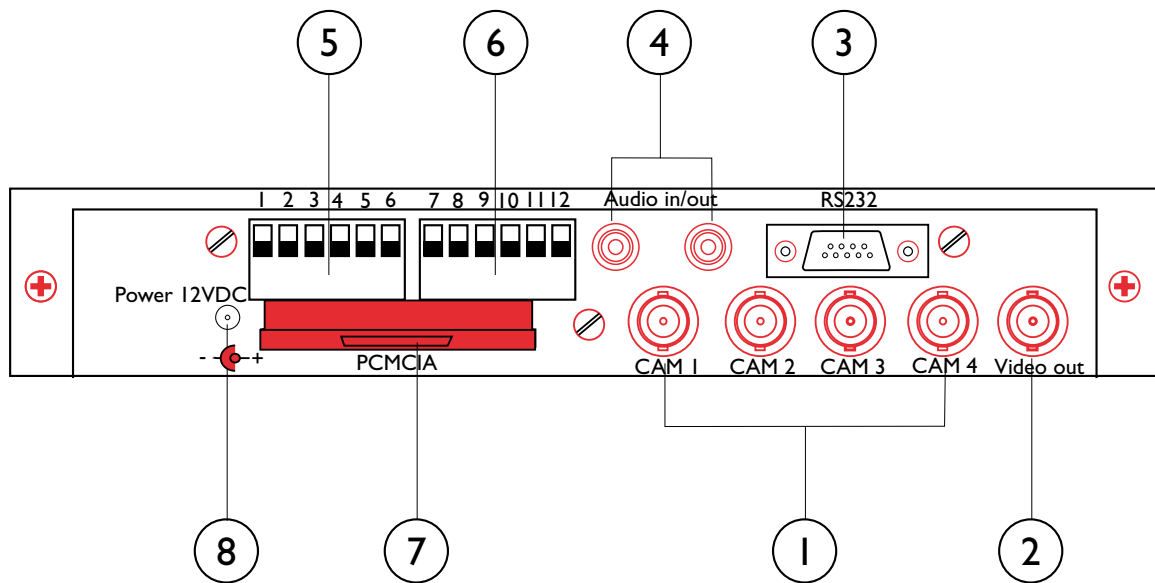


Figure 1. Rear view of LTC 4304 Transceiver

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Direct Connection - With no Pan/Tilt/Zoom Requirement

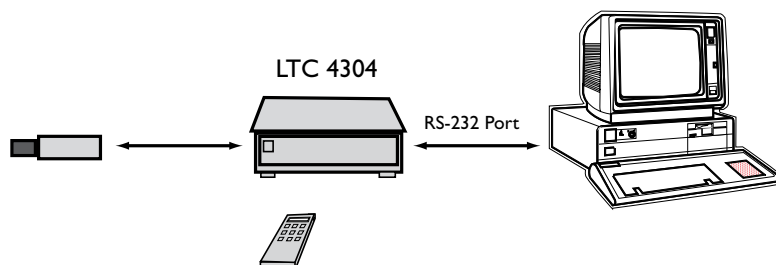
- No PCMCIA device is necessary (Fig. I. item 7)
- Communication uses the standard RS-232 port (Fig. I. item 3)

The transceiver configuration should be setup for:

- Communications:
 - RS-232 serial port.
 - Speed: 115200.
 - AT cmd:
 - Dial cmd:
- General:
 - Alarm call port: RS-232

Connection between PC and Transceiver:

PC Port	Transceiver Port	Function
1	4	.CD
2	3	.Rx
3	2	.Tx
4	1	.DTR
5	5	.Signal Gnd
6	6	.DSR
7	8	.RTS
8	7	.CTS
9	9	.Not used



Direct Connection (no PTZ)

Direct Connection - With Pan/Tilt/Zoom

- PCMCIA to RS-232 Converter is used (Manufacturer: Socket Communications Inc.; Part number: SL0700-004. Internet: www.socketcom.com). (Fig. 1. item 7). This port will be the communication port.
- Pan/Tilt/Zoom uses the standard RS-232 port (Fig. 1. item 3)
- To convert the RS-232 to Biphase protocol, you require the LTC 8780 Code Converter.

The transceiver configuration should be setup for:

- Communications:
 - RS-232 serial port. Speed 9600. (Depends on the LTC 8780 Code Converter setting: 1200, 2400, 9600, 38400).
 - PCMCIA port:

	<i>I/O Card (Production to 1999)</i>	<i>I/O Card (Production 2000 or higher)</i>
■ Speed:	115200	115200
■ AT cmd:	ATB20S0=I&J3	ATB20S0=I&J3
■ Dial cmd:	ATDT	ATDT
■ Address:	8000	0400
■ Command 1:	61	15
■ Command 2:	00	00
■ Command 3:	00	00
- General:
 - Alarm call port: PCMCIA

Note: After change of any PCMCIA setting you MUST give the Transceiver a POWER reset.

Connection between Transceiver and LTC 8780 Code Converter:

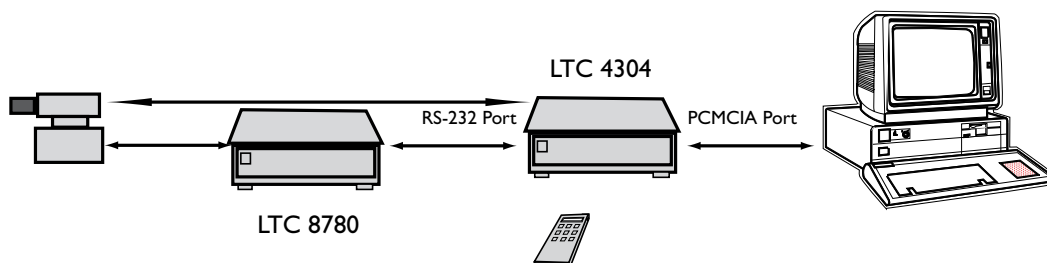
LTC 4304 Port	LTC 8780 Port	Function
2	3	Rx
3	2	Tx
5	5	Signal Gnd
7 	7 	Linked
8 	8 	

LTC 8780 Code Converter DIP switch settings: These MUST be set to the same speed as set for the LTC 4304 Transceiver RS-232 port. The LTC 8780 MUST be set to Biphase conversion.

S101:

Switch 1	Switch 2	Baudrate
OFF	OFF	1200
OFF	ON	2400
ON	OFF	9600
ON	ON	38400

Switch 3: OFF (for RS-232 to Biphase)



Direct Connection (with PTZ)

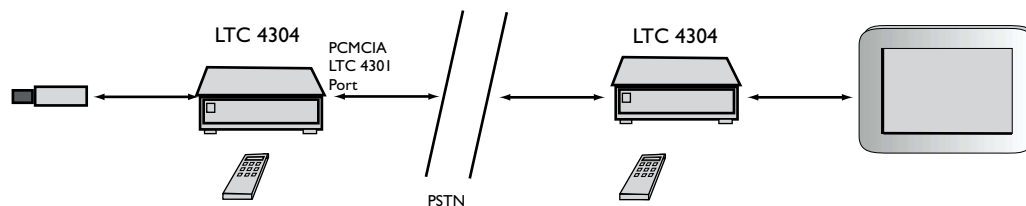
PSTN Connection Box-to-Box - With no Pan/Tilt/Zoom Requirement

- PCMCIA LTC 4301 is used. (Fig. I. item 7). This port will be the communication port.
- Pan/Tilt/Zoom uses the standard RS-232 port (Fig. I. item 3)
- To convert the RS-232 to Biphase protocol, you require the LTC 8780 Code Converter.

The transceiver configuration should be setup for:

- Communications:
 - PCMCIA port:
 - Speed: 57600.
 - AT cmd: AT&FN2S0=2
 - Dial cmd: AT%TCBDT
 - Address: 07E0
 - Command 1: 42
 - Command 2: 00
 - Command 3: 00
- General:
 - Alarm call port: PCMCIA

Note: After change of any PCMCIA setting you MUST give the Transceiver a POWER reset.



PSTN Connection (no PTZ)

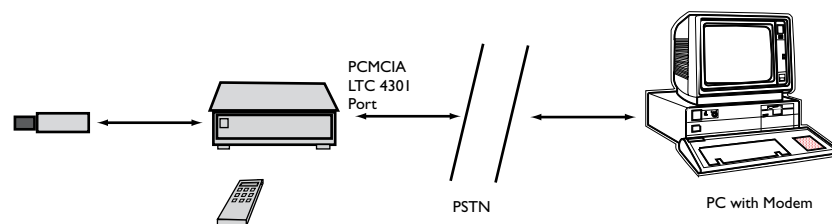
PSTN Connection Box-to-PC - With no Pan/Tilt/Zoom Requirement

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 - Address: 07E0
 - Command 1: 42
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 - Command 3: 00
- General:
 - Alarm call port: PCMCIA

Note: After change of any PCMCIA setting you MUST give the Transceiver a POWER reset.



PSTN Connection (no PTZ)

PSTN Connection Box-to-Box - With Pan/Tilt/Zoom

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 - Command 1: 42
 - Command 2: 00
 - Command 3: 00
- General:
 - Alarm call port: PCMCIA

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Connection between Transceiver and LTC 8780 Code Converter:

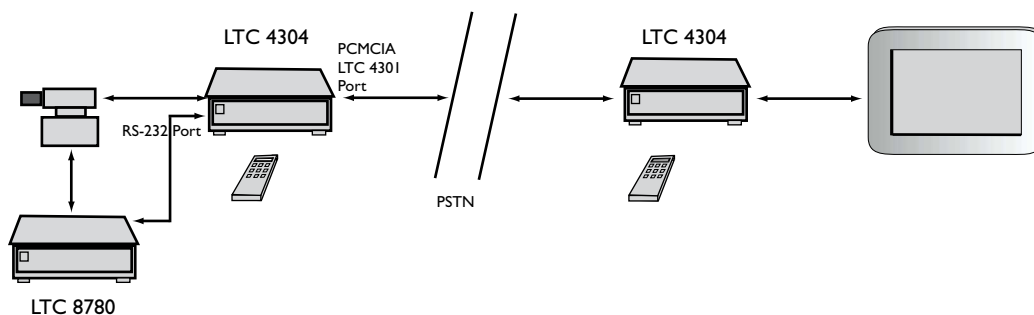
LTC 4304 Port	LTC 8780 Port	Function
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7 ←	7 ←	Linked
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SI01:

Switch 1	Switch 2	Baudrate
OFF	OFF	1200
OFF	ON	2400
ON	OFF	9600
ON	ON	38400

Switch 3: OFF (for RS-232 to Biphase)



PSTN Connection (with PTZ)

PSTN Connection Box-to-PC - With Pan/Tilt/Zoom

- PCMCIA LTC 4301 is used. (Fig. 1. item 7). This port will be the communication port.
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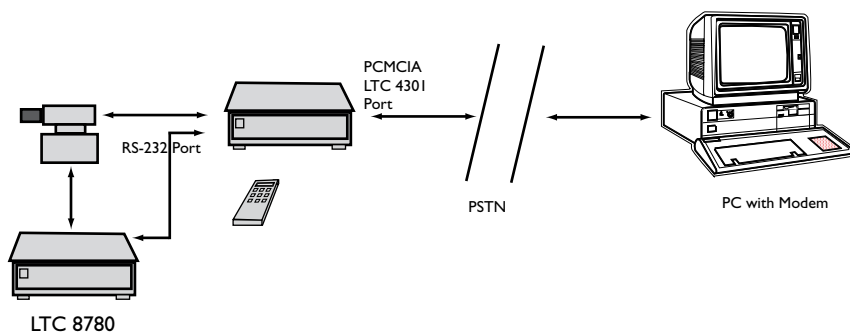
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PSTN Connection (with PTZ)

ISDN Connection Box-to-Box - With no Pan/Tilt/Zoom Requirement

- No PCMCIA device is necessary. (Fig. I. item 7).
- Communication uses the standard RS-232 port (Fig. I. item 3)
- Recommended ISDN Terminal Adapter: Zyxel Omni.net D*. Internet: www.zyxel.com

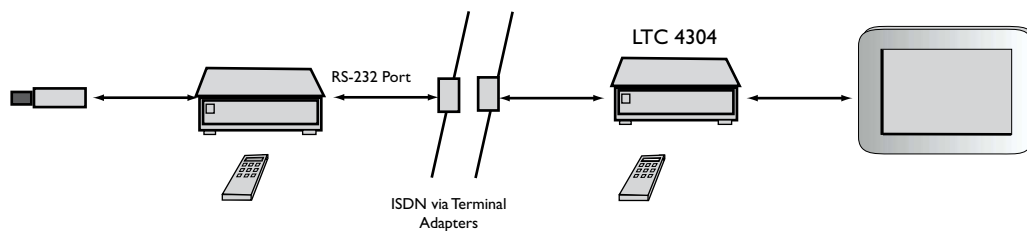
*Note: For compatibility, you have to use the following Zyxel modems which support the Zyxel channel bundling:

- Omni.net series.
- Omni TA 128.
- Elite 28641.

The transceiver configuration should be setup for:

- Communications:
 - RS-232 serial port.
 - Speed: 115200.
 - AT cmd: ATB20S0=1&j3
 - Dial cmd: ATDT
- General:
 - Alarm call port: RS-232

Connection between Transceiver and ISDN: Use standard cable supplied by Terminal Adapter.



ISDN Connection (no PTZ)

ISDN Connection Box-to-PC - With no Pan/Tilt/Zoom Requirement

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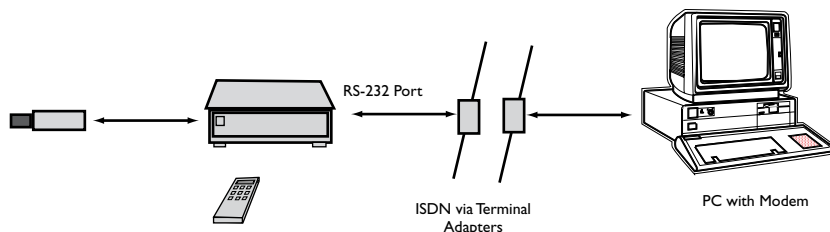
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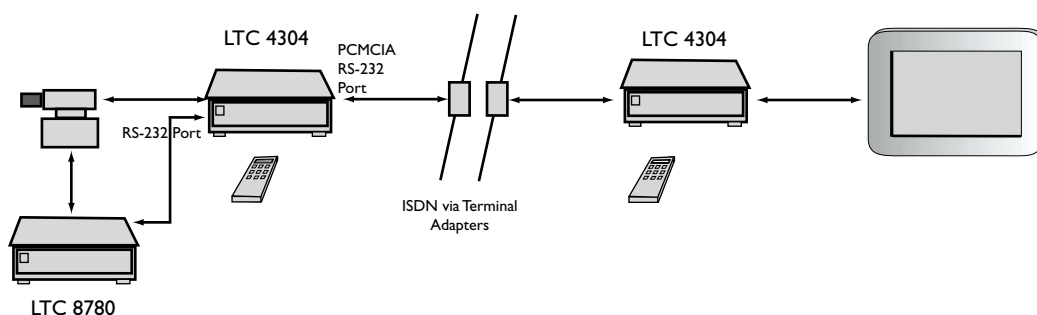
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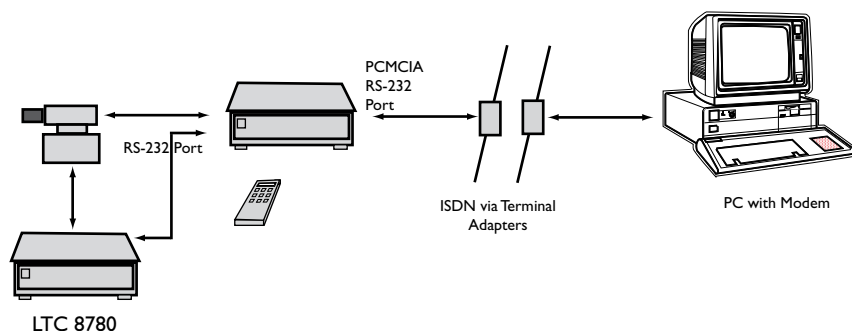
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ISDN Connection (with PTZ)



PHILIPS

Let's make things better.