

Here's a page from Andrew McHaddad's website (www.plsystem.com):

RTS/Telex Equipment Pinouts

• Telex ADAM System

- [KP98-7 4-pin Headset-FP](#)
- [KP98-7 5-pin Headset-FP](#)
- [KP98-7 External DB-9 Headset-RP](#)
- [KP98-7/KP12/TIF951 Matrix Line Connector DB-9F](#)
- [4010M or 828 IFB Power Supply Input 50pin Champ](#)
- [KP-32 Relay 1&2](#)
- [KP-32 Relay 3&4](#)
- [KP-32 Opto 1-4](#)
- [KP-32 OC 1 & 2](#)
- [KP-32 Headset](#)
- [KP-32 Speaker/Foot Switch](#)
- [KP-32 External Microphone](#)
- [KP-32 Balanced Microphone Output](#)

• RTS BP-325 Intercom Beltpack

- [Line Connector](#)
- [AUX/Loop Connector-PGM in mode](#)
- [AUX/Loop Connector-Local Power mode](#)
- [Stereo Headset Connector](#)
- [Mono Headset Connector](#)
- [IFB 4030 User Beltpack](#)

• RTS/Telex Series 800

- [803/802 Front Panel Headset Connector](#)
- [803 Rear Panel HDST/MIC/PGM/USMB \(J111\)](#)
- [803 Rear Panel Relay/SW/ISO \(J108\)](#)
- [RTS SAP-1626 Camera Connector](#)
- [RTS SSA-324 System/System Interface](#)

• RTS/Telex MCE-325 user station

- [6-pin headset connector](#)
- [Rear panel DB-25 accessory connector](#)
- [External Speaker output](#)

• RTS 4030 IFB Beltpack

- [Wiring Detail](#)

[Top](#)

RTS BP-325 Line Connector			
pin #	Use	Color	
1	Common/GND	Shield	
2	Channel #1 audio and 30vdc		
3	Channel #2 audio		

[Top](#)

verified-RTS BP-325 Loop/AUX Connector-PGM input mode			
pin #	Use	Color	Uses the Rear Panel PGM Level control
1	Common/GND	Shield	
2	Non-inverting input		
3	Inverting input		

[Top](#)

verified-RTS BP-325 Loop/AUX Connector-Local Power mode			
pin #	Use	Color	
1	Common/GND	Shield	
2	12-24VDC		

3	NC	
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[Top](#)

verified-RTS BP-325 STEREO Headset Connector		
pin #	Use	Color
1	mic signal low	Shield
2	mic signal high	
3	ear signal low	
4	ear signal left	
5	ear signal right	

[Top](#)

verified-RTS BP-325 MONO Headset Connector		
pin #	Use	Color
1	mic signal low	Shield
2	mic signal high	
3	ear signal low	
4	ear signal high	

[Top](#)

verified-Telex KP98-7 4-pin Headset Connector		
pin #	Use	Color
1	mic signal low	yel
2	mic signal high	gry
3	ear signal low	gry
4	ear signal high	red

The HDST microphone input is balanced. To prevent headset cable MIC-EAR crosstalk, tie pin 1 to chassis ground. It is easiest to do this on the [rear panel EXT HDSTconnector](#).

[Top](#)

Telex KP98-7 5-pin Headset Connector		
pin #	Use	Color
1	mic signal low	yel
2	mic signal high	gry
3	ear signal low	gry
4	ear signal high	red
5	ear signal high	tie to pin 4

Pin 4 and 5 are tied at the headset connector

[Top](#)

verified-Telex KP98-7 9-pin Rear-Panel Headset Connector (DB-9F)		
pin #	Use	Color
1	Dyn. mic +	
2	Dyn. mic shield	
3	Carbon mic +-	
4	Carbon mic Shield	
5	Ear signal high	
6	Dyn. mic -	
7	HDST SW control	
8	HDST SW common	
9	Ear signal common	

Tie pin 2 to pin 6 to unbalance the dyn. mic input.

[Top](#)

4010M or 828 IFB Power Supply Input Connector		
pin #	Use	Color
1,26	CH-1 N-INT	

Low Numbered pin is Positive, High numbered pin is Negative.

2,27	CH-1 INT	
3,28	nc	
4,29	CH-2 N-INT	
5,30	CH-2 INT	
6,31	nc	
7,32	CH-3 N-INT	
8,33	CH-3 INT	
9,34	nc	
10,35	CH-4 N-INT	
11,36	CH-4 INT	
12,37	nc	
13,38	CH-5 N-INT	
14,39	CH-5 INT	
15,40	nc	
16,41	CH-6 N-INT	
17,42	CH-6 INT	
18,43	nc	
19,44	CH-7 N-INT	
20,45	CH-7 INT	
21,46	nc	
22,47	CH-8 N-INT	
23,48	CH-8 INT	
24,49	nc	
25,50	nc	Shield

The chassis mount connector is Female

[Top](#)

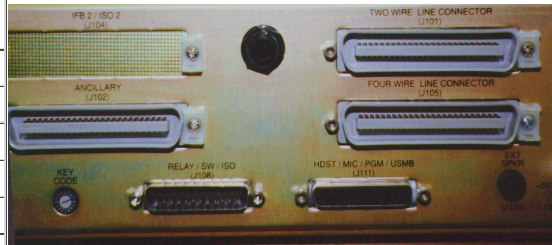
verified-Telex KP98-7, KP12, TIF951 Matrix Line Connector DB-9F			
pin #	Use	Color	
1	DATA +		
2	DATA -		
3	GND, Shield Data		
4	Station Output + (talk)		
5	Station Output - (talk)		
6	GND, Shield Audio		
7	Station Input - (listen)		
8	Station Input + (listen)		
9	NC		

[Top](#)

verified-RTS 803/802 Front Panel Headset			
pin #	Use	Color	
1	mic signal low	Shield	
2	mic signal high		
3	ear signal low		
4	ear signal left		
5	ear signal right		

[Top](#)

RTS 803 DB-25 (J111) Connector		
pin #	Use	Color
1	EXT HDST mic ground	
2	EXT HDST Headphone gnd	
3	EXT HDST Right Headphone high	
4	Chassis ground	
5	EXT Panel mic high	
6	EXT carbon headset-common	
7	EXT carbon headset-Headphone high	
8	Digital ground	
9	Program 1 high	
10	Program 2 high	
11	Chassis ground	
12	Unswitched mic out high	
13	Chassis ground	
14	EXT HDST mic high	
15	EXT HDST Left headphone high	
16	Chassis ground	
17	EXT Panel mic low	
18	EXT Panel mic excitation	
19	EXT carbon headset-mic high	
20	NC	
21	Program 1 low	
22	Program 2 low	
23	Chassis ground	
24	Unswitched mic out low	
25	Chassis ground	



J111 is the female DB-25 connector on the right side of the lower part of the chassis. The USMB output is used to feed an RTS 4000 series IFB panel or it can be routed to a patchfield.

Top

RTS 803 DB-25 (J108) Connector		
pin #	Use	Color
1	Relay 1 N.O.	
2	Relay 1 N.C.	
3	Relay 2 COM	
4	Relay 3 N.O.	
5	Relay 3 N.C.	
6	Relay 4 COM	
7	Relay 5 N.O.	
8	Relay 5 N.C.	
9	Relay 6 COM	
10	XSW & YSW Common	
11	EXT Switch YSW N.O.	
12	EXT. ISO Control input N.O.	
13	Bilat 15 Audio High	
14	Relay 1 COM	
15	Relay 2 N.O.	
16	Relay 2 N.C.	

Male DB-25 connector. Notes

17	Relay 3 COM	
18	Relay 4 N.O.	
19	Relay 4 N.C.	
20	Relay 5 COM	
21	Relay 6 N.O.	
22	Relay 6 N.C.	
23	EXT Switch XSW N.O	
24	EXT. ISO Control input Common	
25	Bilat 15 Audio Low	

[Top](#)

RTS SAP-1626 Camera Connector DB-25F		
pin #	Use	Color
1	common	
2	common	
3	common	
4	common	
5	common	
6	common	
7	common	
8	common	
9	common	
10	common	
11	common	
12	common	
13	NC	
14	Camera 1 CH-1	
15	Camera 2 CH-1	
16	Camera 3 CH-1	
17	Camera 4 CH-1	
18	Camera 5 CH-1	
19	Camera 6 CH-1	
20	Camera 1 CH-2	
21	Camera 2 CH-2	
22	Camera 3 CH-2	
23	Camera 4 CH-2	
24	Camera 5 CH-2	
25	Camera 6 CH-2	

FEMALE DB-25[Top](#)

RTS SSA-324 System/System Interface Four Wire Connector J103 DB-25F		
pin #	Use	Color
1	earth	
2	4-Wire Audio In Hi, System A	
3	4-Wire Audio Out Hi, System A	
4	4-Wire Audio In Hi, System B	
5	4-Wire Audio Out Hi, System B	
6	Call Signal Ground (A)	

The audio I/O on this connector are also duplicated on the TB-1 terminal block.

7	DC Call Sig En GND (A)	
8	Relay Contact NO (A)	
9	Relay Contact COM (A)	
10	RelayRelay NC (B)	
11	Call Send GND (B)	
12	DC Call Sig En GND (B)	
13	NC	
14	NC	
15	4-Wire Audio In Lo, System A	
16	4-Wire Audio Out Lo, System A	
17	4-Wire Audio In Lo, SystemB	
18	4-Wire Audio Out Lo, System B	
19	Call Send Hi (A)	
20	DC Call Sig En Hi (A)	
21	Relay Contact NC (A)	
22	Relay Contact NO (B)	
23	Relay Contact COM (B)	
24	Call Send Hi (B)	
25	DC Call Sig En Hi (B)	

[Top](#)

RTS MCE-325 FP Headset Connector		
pin #	Use	Color
1	HDST Mic LO (-)	
2	HDST Mic HI Com.	
3	Ear Common (LO)	
4	Ear Left HI	
5	Ear Right HI	
6	Remote Mic On/Off	



For remote Mic on/off: short pin-1 to pin-6 to turn on the microphone.

[Top](#)

RTS MCE-325 DB-25 Accessory Connector DB-25F		
pin #	Use	Color
1	USMB -Hot Mic Out LO (-)	
2	EXT Panel Mic Com.	
3	Chassis Ground	
4	HDST Mic HI	
5	HDST Ear HI Left	
6	Talk Key #1 Logic Out	
7	Talk Key #3 Logic Out	
8	4W-A HI	
9	4W-B HI	
10	Common	
11	Common	
12	ISO Logic	
13	Ext +14 VDC in	

This female DB-25 connector has it all. The USMB output is used to feed an RTS 4000 series IFB panel mic signal in. On the 4001 IFB panel, use TB-2 pins 3 and 4 for line level input.

14	USMB -Hot Mic Out HI (+)	
15	EXT Panel Mic HI	
16	HDST Mic HI	
17	HDST Ear Common (LO)	
18	HDST Ear HI Right	
19	Talk Key #2 Logic Out	
20	Talk Key #4 Logic Out	
21	4W-A LO	
22	4W-B LO	
23	Ext +18 VDC in	
24	Rem. Mic ON logic in	
25	Speaker mute logic in.	

[Top](#)

RTS MCE-325 External Speaker			
pin #	Use	Color	NOTE: DO NOT USE a Metal Shell Connector. This is a balanced speaker driver. Shorting either tip or ring to ground will result in a call to the Telex Service department.
Tip	Speaker amp + out		
Ring	Speaker amp - out		
Sleeve	No connection.		

[Top](#)

4030 IFB Beltpack

pin #	Use	Color
Line Conector		
1	Line Commont	
2	Channel 1	
3	Channel 2	
Stereo Earpiece		
Tip	Interrupt	
Ring	Non-Interrupt	
Sleve	Ground	
Mono Earpiece		
Tip	Interrupt	
Sleve	Ground	

Figure 4. Connector Plate Assembly, Model 4030

Item No.	Description	Part No.
1	Connector Plate	90807374-008
2	Jack, Phone, Mono, 1/4"	2013001200
3	Connector, XLR-3F	40055-10
4	Connector, 4-pin	59958-004
5	Contact, Connector	59958-200
6-9	Not Used	
10	Jack, Phone, Stereo, 1/4"	2013000300

90207489, B

[Top](#)

verified-Telex KP-32 Relay 1&2(DB-9M)		
pin #	Use	Color
1	N.C. Contact K1	
2	Common K1	
3	N.O. Contact K1	
4	N.C. Contact K2	
5	Common K2	

6	N.O. Contact 2	
7	+5V DC	
8	Ground	
9	+5V DC	

[Top](#)

verified-Telex KP-32 Relay 3&4(DB-9M)		
pin #	Use	Color
1	N.C. Contact K3	
2	Common K3	
3	N.O. Contact K3	
4	N.C. Contact K4	
5	Common K4	
6	N.O. Contact 4	
7	+5V DC	
8	Ground	
9	+5V DC	

[Top](#)

verified-Telex KP-32 Opto 1-4 Input(DB-9M)		
pin #	Use	Color
1	Input 1 GND	
2	Input 2 GND	
3	Input 3 GND	
4	Input 4 GND	
5	GND	
6	Switch Contact Input 1	
7	Switch Contact Input 1	
8	Switch Contact Input 1	
9	Switch Contact Input 1	

Tie any switch input to ground to activate that input (pin 1-4)

[Top](#)

verified-Telex KP-32 OC 1 & 2(DB-9M)		
pin #	Use	Color
1	GND OC1	
2	Emitter OC1	
3	Collector OC1	
4	GND OC2	
5	Emitter OC2	
6	Collector OC2	
7	+5V DC	
8	NC	
9	+5V DC	

[Top](#)

verified-Telex KP-32 Rear-Panel Headset Connector (DB-9M)		
pin #	Use	Color
1	GND	
2	nc	
3	nc	
4	nc	
5	Balanced Dynamic Mic Input +	

Tie pin 1 to pin 9 to unbalance the dyn. mic input.

6	GND	
7	Headset Listen Out Left	
8	Headset Listen Out Right	
9	Balanced Dynamic Mic Input -	

[Top](#)

verified-Telex KP-32 Footswitch /Speaker DB-9M		
pin #	Use	Color
1	GND	
2	Speaker (-)	
3	GND	
4	nc	
5	Foot Switch	
6	Speaker (+)	
7	nc	
8	nc	
9	GND	

[Top](#)

verified-Telex KP-32 External Microphone Input XLR-3F		
pin #	Use	Color
1	Shield	
2	DC Bias and Audio (+)	
3	GND	

[Top](#)

verified-Telex KP-32 Balanced Microphone Output XLR-3M		
pin #	Use	Color
1	Shield	
2	Audio (+)	
3	Audio (-)	

[Go to Wiring Standards Page](#)

Technical Audio Solutions
20314 Highpoint Place
Canyon Country, CA 91351

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