



TGR-SL-USB SignaLink™ USB



Cable List - Rev 58

Last Update - 21 December 2016 Last Tigertronics Update - 23 November 2016

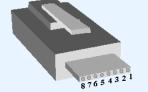
TigertronicsSignaLink™ USBDigital Interface - CableTigertronicsInterfaceListing

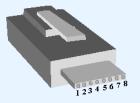
SignaLink Jumper Settings & Wiring Information For <u>Base & Mobile Radios</u> *References to other non-USB models have been removed from the original Tigertronics document.*

Warning: Tigertronics has not verified the accuracy of all of the radio wiring information that is provided here. This information is provided for reference only and is NOT intended to replace the jumper installation procedure in the "Connecting The Radio" section of the SignaLink Installation Manual. It is essential that you double-check this information against your radio's manual before doing the actual installation. While it is fairly simple to install the SignaLink, it is possible to DAMAGE YOUR RADIO or the SignaLink by incorrectly installing it!

IMPORTANT NOTES

- SignaLink USB Users The SignaLink USB is always powered by the computer's USB jack. When installing the jumpers for the SignaLink USB using the settings shown here and in our other documentation, please disregard the PWR jumper (<u>do NOT</u> <u>install it!</u>). All other jumper settings are the same. Note that if you mistakenly install the PWR jumper, it will make no difference in the operation of the unit as this pin is not internally connected.
- Select The Correct Diagram When viewing the jumper settings below, BE CERTAIN THAT YOU ARE LOOKING AT THE CORRECT DIAGRAM for the radio connector that you will be using. For any given radio, there are likely to be different jumper settings for the Mic, Data and Accessory Port connectors.
 - RJ-45 Mic Connectors There is a lack of standardization in the way that radio manufacturers number their RJ-45 mic connectors. We have numbered our connector according to the dominant industry standard as shown to the right. Icom and Radio Shack also follow this standard, but Kenwood, Yaesu and some others do not. You need to be very careful to determine here





SignaLinkTM, Industry Standard

Kenwood, Yaesu, Some Others

- others do not. You need to be very careful to determine how *your* mic connector is numbered to avoid reversing connections! **PTT** You should verify in your radio manual that the radio PTT requirements do not exceed the specifications of the SignaLink keying circuit (please refer to the SignaLink manual) and that the PTT line is "Grounded" to make the radio transmit. If your radio exceeds the specifications listed or requires some other keying arrangement, then please contact our Technical Support Staff for suggestions.
- **POWER** The SignaLink USB is always powered by the computer's USB jack. When installing the jumpers for the SignaLink USB, please disregard the PWR jumper. All other jumper settings are the same. If you mistakenly install the PWR jumper, everything is OK as this pin is NOT connected inside the unit.
- Jumper Wire Color The jumper wires in the diagrams below are shown in color for illustrative purposes only. The color of the wires means nothing they're just easier to see! The actual jumper wires that are included with the SignaLink are all the same color and can be used to jumper any signal.

Note that the SignaLink USB is always powered by the computer, so you can disregard the PWR jumper when installing this unit.

• **RECEIVE AUDIO / SPEAKER AUDIO** - Receive Audio is available on the Mic, Data, and Accessory Port connectors of most radios. If Receive Audio is not shown in the jumper settings for your radio, then consult your radio manual to see if it is available. If it is not, then you will need to connect a mono cable between your radio's External Speaker or headphone jack, and the "Speaker" jack on the back of the SignaLink. See the SignaLink Installation Manual for details.

Tigertronics SignaLink Combos

	COMBO:	SignalLink USB, with Built-In Sound Card, 13-Pin
TGR-SI USB13I-P	TGR-SL-USB, TGR-SL-CAB13I	DIN Cable for Icom Acc. Port, Combo
	COMBO:	SignalLink USB, with Built-In Sound Card, 13-Pin
LIGR SLUSB13K P		•
	TGR-SL-USB, TGR-SL-CAB13K	DIN Cable for Kenwood Acc. Port, Combo
TGR-SI IISB4R-P	COMBO:	SignalLink USB, with Built-In Sound Card, 4-Pin
	TGR-SL-USB, TGR-SL-CAB4R	Round Mic Cable, Combo
	СОМВО:	SignalLink USB, with Built-In Sound Card, 5-Pin
	TGR-SL-USB, TGR-SL-CAB5PD	DIN Cable, Combo
TGR-SLUSB6PM-P	COMBO:	SignalLink USB, with Built-In Sound Card, 6-Pin
	TGR-SL-USB, TGR-SL-CAB6PM	mini DIN Cable, Combo
TGR-SLUSB8PD-P	COMBO:	SignalLink USB, with Built-In Sound Card, 8-Pin
IGK-SLUSDOFD-F	TGR-SL-USB, TGR-SL-CAB8PD	DIN Cable, Combo
	COMBO:	SignalLink USB, with Built-In Sound Card, 8-Pin
TGR-SLUSB8R-P	TGR-SL-USB, TGR-SL-CAB8R	Round Mic Cable, Combo
	COMBO:	SignalLink USB, with Built-In Sound Card, 36 in.
TGR-SLUSBHTW-P	TGR-SL-USB, TGR-SLCABHTW	Length Cable, Combo
	COMBO:	SignalLink USB, with Built-In Sound Card, 36 in.
TGR-SLUSBHTY-P	TGR-SL-USB, TGR-SLCABHTY	Length YaesuCable, Combo
	СОМВО:	SignalLink USB, with Built-In Sound Card, Elecraft
TGR-SITISRK3-D	TGR-SL-USB, TGR-SL-CABK3	K3's rear panel Line In/Out and PTT jacks, Combo
	•	
	COMBO:	SignalLink USB, with Built-In Sound Card, Elecraft
	TGR-SL-USB, TGR-SLCABKX3	KX3's Mic and Phones jacks, Combo
TGR-SLUSBNC-P	COMBO:	SignalLink USB, with Built-In Sound Card, Un-
	TGR-SL-USB, TGR-SL-CABNC	terminated Radio Cable, Combo
TGR-SLUSBRJ1-P	COMBO:	SignalLink USB, with Built-In Sound Card, RJ-11
IGR-SLUSDRJI-P	TGR-SL-USB, TGR-SL-CABRJ1	Mic Cable, Combo
	COMBO:	SignalLink USB, with Built-In Sound Card, RJ-45
TGR-SLUSBRJ4-P	TGR-SL-USB, TGR-SL-CABRJ4	Mic Cable, Combo

The Tigertronics SL-USB SignaLink is sold as a combo package that includes the SignaLink USB, one Radio Cable, one USB Cable, one software disc, jumper wires and instructions.

Cables are available separately. SELECT A MANUFACTURER

NOTE: Please read the "Important Notes" above BEFORE you select your jumper settings. This will save time and may help prevent you from making a mistake that could possibly damage the SignaLink or your radio. Note that the SignaLink USB does NOT use the PWR jumper wire, so you can disregard this jumper during installation. All other jumper settings are the same.

ADI	8-Pin Round	8-Pin Round Mic Connector - TGR-SLUSB8R-P			
Radio Models	Pin-out	Notes	JP-1		
AR-146 AR-147 AR-446	Pin 1 - Mic Input Pin 2 - PTT Pin 3 - N/C Pin 4 - N/C Pin 5 - N/C Pin 6 - Speaker** Pin 7 - N/C Pin 8 - GND	** Speaker audio is available on some models. Check your radio manual for availability of these signals and add the appropriate jumpers.	G G 7 G 6 0 5 PWR 0 4 PTT 0 3 MIC 2 SPKR 1		

ALINCO	8-Pin Round	8-Pin Round Mic Connector - TGR- SLUSB8R-P			
Radio Models	Pin-out	Notes	JP-1		
ALD-24T ALR-22T/22HT/72T DR-110T/112T DR-130T/135E/135T DR-150/235T DR-430T/435E/435T DR-510T/570T DR-590T/592T/599T DR-600T/610E/610T	Pin 1 - Mic Input Pin 2 - PTT Pin 3 - N/C Pin 4 - N/C Pin 5 - N/C Pin 6 - N/C** Pin 7 - GND Pin 8 - GND	** Speaker audio is available on some models. Check your radio manual for availability of these signals and add the appropriate jumpers.	G G 6 G 6 0 5 PWR 0 4 PTT 0 3		
DR-620E/620T/1200 DX-70T/70TH/70EH DX-77 DX-SR8T/E			MIC 2 SPKR 1		

ALINCO	RJ-45 Mic Connector - TGR-SLUSBRJ4-P			
Radio Models	Pin-out	Notes	JP-1	
DR-605E/605T	Pin 1 - N/C Pin 2 - N/C Pin 3 - N/C Pin 4 - PTT Pin 5 - Mic GND Pin 6 - Mic Input Pin 7 - GND Pin 8 - N/C	Speaker audio is available on some models. Check your radio manual for availability of these signals and add the appropriate jumpers.	G G G PWR PTT MIC SPKR G G G 5 5 4 3 2 1	

AZDEN	8-Pin Round Mic Connector - TGR-SLUSB8R-P		
Radio Models	Pin-out	Notes	JP-1
PCS-5000 PCS-6000 PCS-7000	Pin 1 - Mic Input Pin 2 - GND Pin 3 - N/C Pin 4 - N/C Pin 5 - N/C Pin 6 - N/C Pin 7 - PTT Pin 8 - N/C	Speaker audio is available on some models. Check your radio manual for availability of these signals and add the appropriate jumpers.	G C 8 G 7 G 6 5 PWR 6 PTT 3 MIC 2 SPKR 1

DRAKE	4-Pin Round Mic Connector - TGR-SLUSB4R-P		
Radio Models	Pin-out	Notes	JP-1
TR-7 TR-22 TR-33 UV-3	Pin 1 – Mic Input Pin 2 – PTT Pin 3 – N/C Pin 4 – GND		G C C 8 G C C 7 G C C 7 G C C 5 PWR C 5 PWR C 3 MIC 2 SPKR 1

ELECRAFT	8-Pin Round Mic Connector - TGR-SLUSB8R-P		
Radio Models	Pin-out	Notes	JP-1
K2 K3	Pin 1 - Mic Pin 2 - PTT Pin 3 - NC Pin 4 - NC Pin 5 - NC Pin 6 - +5VDC Pin 7 - GND Pin 8 - GND	The Mic jack on the K2 can be wired a number of different ways, so before installing the jumper wires, you MUST verify that the pin-out of your K2 matches that shown here.	G G C 6 G C 6 C 5 PWR C 4 PTT C 3 MIC 2 SPKR C 1

ELECRAFT	Rear Panel Audio In, Audio Out and PTT connectors - TGR-SLUSBK3-P		
Radio Models	Pin-out	Notes	JP-1
K3 only	Pin 1 - SPKR Pin 2 - GND Pin 3 - MIC Pin 4 - PTT Pin 5 - GND Pin 6 - GND	Some customers have found that the K3's "Line In" gain (menu setting) is set to zero by default, thereby resulting in no power output when transmitting. If up experience this problem, then please consult your radio manual for instructions on turning up this control.	G C 8 G 7 G 6 5 PWR 0 4
Check the SLMODK3 Jumper Module list	Pin 7 - N/C Pin 8 - N/C	Note that the K3 also has a menu setting for the "Line Out" level, which can be turned up if needed to increase the RX Audio going into the SignaLink	PTT 3 MIC 2 SPKR 1

ELECRAFT	Mic Connector - TGR-SLUSBKX3-P			
Radio Models	Pin-out	Notes	JP-1	
KX2 KX3 <i>NOTE: The new KX2 uses the same radio cable and jumper module as the KX3</i> <i>Check the SLMODKX3 Jumper Module list</i>	Pin 1 - MIC Pin 2 - PTT Pin 3 - GND Pin 4 - N/C Pin 5 - N/C Pin 6 - N/C Pin 7 - N/C Pin 8 - N/C	 Two cable connections are required from the SignaLink to the Elecraft KX3 as follows: Connect the RJ-45 end of the SLCABKX3 radio cable to the SignaLink's "Radio" connector. Connect the 4-pin right-angle TRRS plug to the KX2/3's "Mic" jack, being sure to fully insert the plug. Connect the supplied right-angle mono audio cable between the SignaLink's "SPKR" jack, and the KX2/3's "Phones" jack. Be sure that both plugs are fully inserted. KX2/3 Radio Settings: 1 - The "Mic Bias" setting in the KX2/3's menu system should be turned OFF if you are using jumper wires. This setting can be left ON if you are using our SLMODKX3 jumper module as it has a built-in DC blocking capacitor. 2 - The "Mic Btn" setting should be set to either "PTT", or "PTT Up.Dn.". 3 - We recommend turning the KX2/3's "Audio Effects" feature OFF, as it will likely cause receive problems during digital operation. 	G G G PWR PTT MIC SPKR SPKR SPKR SPKR SPKR SPKR SPKR SPKR	

ICOM	4-Pin Round Mic Connector - TGR-SLUSB4R-P		
Radio Models	Pin-out	Notes	JP-1
IC-22 IC-202/215/245/280 IC-402 IC-502/551 IC-701	Pin 1 – Mic Input Pin 2 – PTT Pin 3 – N/C Pin 4 – GND		G C C 8 G C C 7 G C C 6 C 5 PWR C 4 PTT 3 MIC 2 SPKR 0 1

ICOM 8-Pin Round Mic Connector - TGR-SLUSB8R-P			
Radio Models	Pin-out	Notes	JP-1
IC-22U/25/27/28 IC-37A/38A/375 IC-45/47/48 IC-228/229/251AE IC-255/260/271/290 IC-471/475/490 IC-505/551/560/575 IC-707/718/720/725/726 IC-728/729/730/735 IC-736/737/738/740/745 IC-746/746PRO IC-751 IC-756/756PRO IC-756PROII/PROIII IC-756/756PRO IC-756PROII/PROIII IC-761/765/775/781 IC-820H/901/910 IC-1201/1271/1275 IC-2400/2500 IC-3200/3210/3220/3230 IC-7400/7410/7600/7700 IC-7800 Check the SLMOD8RI	Pin 1 – Mic Input Pin 2 – N/C** Pin 3 – N/C Pin 4 – N/C Pin 5 – PTT Pin 6 – GND Pin 7 – GND Pin 8 – Speaker**	Notes ***Speaker audio (usually Pin #8) is available on some models. Check your radio manual for availability of these signals and add the appropriate jumpers. IMPORTANT: This diagram is for the MIC JACK only. If the SignaLink is attached to your radio's 8-pin Accessory Port, then please see the diagram below under "8-pin DIN Accessory Port Connector". Check Other Listings for these radios - you may be able to use the DIN, PACKET, ACCESSORY, or DATA jack	G G G PWR PTT MIC SPKR G C G C C C C C C C C C C C C C C C C

ICOM	RJ-45 Mic Connector - TGR-SLUSBRJ4-P		
Radio Models	Pin-out	Notes	JP-1
IC-207H**/208H**	Pin 1 – +8V***	***Speaker audio is available on some models. Check	
IC-281A/281E/281H	Pin $2 - N/C$	your radio manual for availability of these signals and	G 🔘 🔘 8
IC-703/706/706MKII	Pin 3 – Speaker***	add the appropriate jumpers.	G 7
IC-2000	Pin 4 – PTT		G ፍ 🥪 6
IC-2100H**/2200H**	Pin 5 – GND (mic)	**Speaker Audio is NOT available on the Mic jack of	5
IC-2300H**	Pin 6 – Mic Input	this radio, so do <u>NOT</u> install the SPKR jumper wire.	PWR 🛋 🦾 4
IC-2700**/2720H**	Pin 7 – GND	Instead, use the supplied audio cable as detailed in the	PTT 3
IC-2730A/E**	Pin $8 - N/C$	SignaLink USB manual	
IC-2800**/2820**			SPKR 1
IC-7000**/ IC-7100**		Check Other Listings for these radios - you may be	SPKK
IC-V8000**		able to use the DIN, PACKET, ACCESSORY, or	
ID-800H** /880**		DATA jack	
ID-5100A/E**		5	

ICOM	6-Pin Mini DIN Data Port Connector - TGR-SLUSB6PM-P				
Radio Models	Pin-out	Notes	JP-1		
Radio Models IC-207H/208H IC-2720H IC-2800**** IC-2820 IC-703** IC-706MKIIG** IC-746PRO*** IC-7000*** IC-7100 IC-7400 IC-910H## ID-880 IC-9100 Check the SLMOD6PM Jumper Module list	Pin-out Pin 1 – Data In Pin 2 – Ground Pin 3 – PTT Pin 4 – 9600 Out Pin 5 – 1200 Out Pin 6 – Squelch	Notes For special signals requiring un-filtered "discriminator" audio, you will need to move the "SPKR" jumper to pin #4 (9600 baud output). Note that some newer radios do NOT provide this output, so this may not apply to your radio. **703 - If you are using the Data Port on this radio, then you must set menu #36 to 1200. **706MKIIG - If you are using the Data Port on this radio, then you must set menu #29 to 1200. ***IC-746PRO / IC-7000 - Some users have reported that this radio has a very sensitive Data Port, making power adjustments with the SignaLink USB's TX knob somewhat touchy. ****Mic audio is NOT muted on this radio. ## IC-910H: You will need to connect the SignaLink to the "Main" data port connection on	G G G G PWR PTT MIC SPKR G G G G G G G G G G G G G G G G G G G		
		this radio (not the "Sub" port)			

***<u>NOTE:</u> The SignaLink USB's TX control is "touchy", making it difficult to control my RF power - This is most likely because the radio's Mic, Data or Accy Port gain control is set too high, but before continuing, please be sure that you have NOT installed special jumper JP3 inside the SignaLink. This jumper is rarely needed, and will normally cause the SignaLink to provide too much audio to the radio making adjustment of the TX knob difficult. If the SignaLink is attached to your radio's Mic jack, then you can resolve this issue by turning the radio's Mic Gain control down. If the SignaLink is attached to the radio's Data or Accy Port, then your radio likely has a menu setting or trimmer to adjust the gain. This gain adjustment is often called "Packet Input Level" or "Packet Gain", but may have another name, so check your radio manual carefully. Note that the radio's Mic Gain control on some older radios may also affect the Data/Accy Port (TS-440 for example), so you should check this as well.

If the above solutions don't help, then we suggest that you install Special Jumper JP4 inside the SignaLink and LOWER the software "Wave" control for the SignaLink's sound card. Note that the "wave" control is the "Applications" volume control if you are using Windows Vista, or Windows 7. The "Wave" control can be lowered to just <u>above</u> the point where the SignaLink's PTT LED turns OFF, so as to provide minimal TX Audio to the radio while insuring that the SignaLink's PTT circuit functions correctly. We recommend finding this threshold while transmitting a steady test tone, and with the SignaLink's Delay knob set to minimum.

***<u>NOTE:</u> If you are using an ICOM **IC-7000**, **IC-746PRO**, or **Yaesu FT-450**, please note that some customers have reported that these radios have unusually sensitive Data Ports, which can make adjustment of the SignaLink's TX knob somewhat difficult. If this is the case with your radio (and the solutions listed above don't work), then you can easily resolve the issue by replacing the SignaLink's "Mic" jumper wire with a standard 1/4 watt size resistor. Both a 47K and 100K resistor have been reported by several customers to allow easy adjustment of the power level. Please note that you <u>**DO</u><u>NOT**</u> solder this resistor. It simply plugs into the JP1 socket in place of the MIC jumper wire. <u>Be sure that you use a 1/4 watt size resistor, so that you do not damage the SignaLink's socket!</u>

ICOM	24 Pin DIN Accessory Port Connector - TGR-SLUSBNC-P				24 Pin DIN Accessory Port Connector - TGR-SLUSBNO	
Radio Models	Pin-out	Notes	JP-1			
IC-251AE IC-730 IC-751	Pin 1 - N/C Pin 2 - +13.8V Pin 3 - PTT Pin 4 - AF Out Pin 5 - Mic Input Pin 6 - N/C Pin 7 - N/C Pin 8 - GND Pins 9-24 N/C	24-pin DIN Accessory Port Connector - Tigertronics does not manufacture a cable for the ICOM 24-pin Accessory Port connector, but you can easily build one using our un-terminated radio cable (p/n SL- CABNC). To build your cable, simply wire it straight- through for pin numbers 1-8 (Pin #1 to Pin #1, Pin #2 to Pin #2, etc.). Note that your cable MUST be wired straight-through or the jumper settings shown below will NOT work, and you might DAMAGE YOUR RADIO OR THE SIGNALINK! Pins marked as "N/C" are not used by the SignaLink, but might be connected internally inside the radio.	G 6 7 G 6 5 PWR 4 PTT 3 MIC 2 SPKR 1			

ICOM	8-Pin DIN Accessory Port Connector - TGR-SLUSB8PD-P			
Radio Models	Pin-out	Notes	JP-1	
Kano Models IC-275A IC-575A/H IC-707 IC-725/726/728/729 IC-735/736/737/738 IC-7400 IC-746** IC-746 PRO** IC-756 / 756PRO IC-756 / 756PRO IC-756 PROII / III IC-757/75DSP IC-781 IC-910H/970 IC-M600 IC-M700 PRO IC-M710 IC-M802	Pin - out Pin 1 - RTTY or N/C Pin 2 - Ground Pin 3 - Send Pin 4 - Mod In Pin 5 - AF Out Pin 6 - Squelch Pin 7 - +13.8V Pin 8 - ALC Check the SLMOD8PD Jumper Module list	IMPORTANT: This diagram is for the ACCY PORT only. If the SignaLink is attached to your radio's 8-pin Round Mic Jack, then please see the diagram above under "8-Pin Round MIC Connector". IC-756PRO users should use digital mode "D-USB" or "D-LSB". **Some customers have reported that the IC-746 (early model only) does NOT mute the Mic when keyed from the Accy Port. If this is the case with your radio, then you will need to turn the radio's Mic Gain down and/or unplug the microphone. **Due to the design of the IC-746PRO, this jack does NOT support VHF operation. If you want to operate both HF and VHF, then you'll need to use the 6-pin mini-DIN Data Port instead. **IC-746PRO users should use "USB/LSB Data" mode (not regular USB/LSB). ***IC-820H users need to set the Modulation Input Sensitivity switch to "Low", and the Baud	G G G PWR PTT MIC SPKR	

ICOM	13-Pin DIN Accessory Port Connector - TGR-SLUSB13I-P			
Radio Models	Pin-out	Notes	JP-1	
IC-78	Tigertronics	For VHF operation on the IC-706 and IC-706MKII you		
IC-703	manufactures a	will need to move the PTT jumper to Pin #4.	G G 8	
IC-706	special cable for		G O O 7	
IC-706 MkII	ICOM 13-pin	For VHF/UHF operation on the IC-706MKIIG and IC-		
IC-706 MkIIg	Accessory	7000, you should turn the following menu item to OFF:	G 💿 🤅 6	
IC-718***	Ports. If you	Item #30 for IC-706MKIIG	🔘 🧀 5	
IC-7000**	would like to	Item #20 for IC-7000	PWR 🧨 💿 4	
IC-7100**	build your own	This will force the radio to use the same PTT pin for all	PTT 3	
IC-7200	13-pin cable (not	bands so will not need to change the SignaLink's jumper		
IC-7300	recommended!),	settings.		
IC-7410	please contact our	*** This radio does NOT mute the Mic jack when using	SPKR 📻 21	
IC-9100	Technical Support	the Accy Port, so you will need to turn the Mic Gain		
	Staff for pin-out	down.		
	and wiring	**This radio does NOT mute the Mic jack when using		
Check the SLMOD13I	information.	the Accy Port, so you will need to turn the Mic Gain		
Jumper Module list		down, or use the 6-pin Mini Din Data Port instead.		

Japan Radio Company		8-Pin Round Mic Connector - TGR-SLUSB8R-P	
Radio Models	Pin-out	Notes	JP-1
JST-145 JST-245	Pin 1 - N/C Pin 2 - N/C Pin 3 - N/C Pin 4 - +9V Pin 5 - GND Pin 6 - PTT Pin 7 - Mic GND Pin 8 - Mic Input		G G G PWR PTT MIC SPKR G 5 4 3 2 1

KENWOOD	4-Pin Round Mic Connector - TGR-SLUSB4R-P				
Radio Models	Pin-out	Notes	JP-1		
TR-7200A	Pin 1 – Mic Input	Check Other Listings for these radios - you may be			
TR-7400A	Pin 2 – PTT	able to use the DIN, PACKET, ACCESSORY, or	G 🔍 🔘 8		
TR-7500	Pin 3 – GND	DATA jack			
TS-120S/130S/180S	Pin 4 – Mic GND		G C O 7		
TS-511S/520/530			G 🔿 🗋 6		
TS-600			0 0 5		
TS-700			PWR 0 1 4		
TS-820/830			PTT S 3		

KENWOOD	8-Pin Round Mic Connector - TGR-SLUSB8R-P				
Radio Models	Pin-out	Notes	JP-1		
TM-201/211/221/231	Pin 1 – Mic Input	** Speaker audio is not available on some			
TM-241/2530/2550	Pin 2 – PTT	models. Check your radio manual for availability of	G 🕞 🖌 8		
TM-321/331/3530/401	Pin $3 - N/C$	these signals and add the appropriate jumpers.			
TM-421/431/441/521	Pin 4 - N/C		G C 7		
TM-531/541/621/631	Pin 5 – 8 VDC**	Check Other Listings for these radios - you may be	G 🔿 🍃 🤌 6		
TM-701/721/731	Pin 6 – Speaker**	able to use the DIN, PACKET, ACCESSORY, or	💿 🚄 5		
TM-2570	Pin 7 – Mic GND	DATA jack	PWR 0 4		
TR-50/751/851	Pin 8 – GND	j			
TS-50/60/140			PTT 🔍 O 3		
TS-430/440/450					
TS-570/590			SPKR		
TS-660/670/680/690					
TS-701/711/780/790					
TS-811/850/870					
TS-930/940/950/990					
TS-2000					
TW-4000/4100					
Check the SLMOD8RK Jumper Module list					

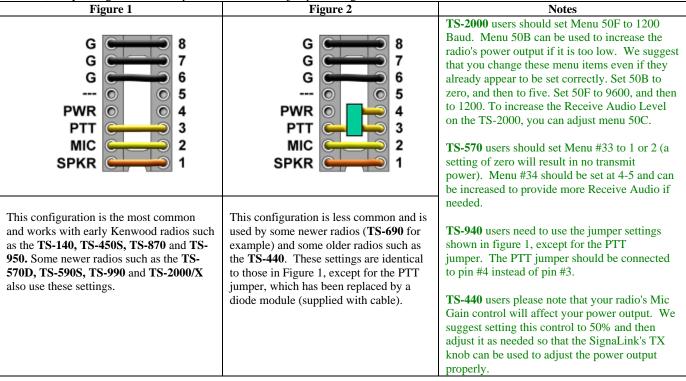
KENWOOD	RJ-45 Mic Connector - TGR-SLUSBRJ4-P				
Radio Models	Pin-out	Notes	JP-1		
TK-90 TK-7102H / 7108M/HM TK-7160E/M/HM / 7162E TK-7180E / 7189E TK-8108M/HM TK-8160E/M TK-8160E/ 8180E / 8189 TM-251/255/261/271/281	Pin 1 – NC Pin 2 – Speaker** Pin 3 – Mic Pin 4 – GND Pin 5 – PTT Pin 6 – GND Pin 7 – +8V** Pin 8 – NC	 **Speaker audio is available on some models. Check your radio manual for availability of these features and add the appropriate jumpers. Check Other Listings for these radios - you may be able to use the DIN, PACKET, ACCESSORY, or DATA jack 	G 0 0 8 G 7 G 6 5 PWR 4 PTT 3		
TM-451/455/461 TM-641/642 TM-732/733/741/742 TM-941/942 TM-D700/D700A TM-D710/710A/E TM-G707 TM-V7A/V71A/V71E TM-V708 TS-480HX/SAT			MIC SPKR		

KENWOOD	6-Pin Mini DIN Port Connector - TGR-SLUSB6PM-P				
Radio Models	Pin-out	Notes	JP-1		
TM-251/255	Pin 1 – Data In	For special signals requiring un-filtered "discriminator"			
TM-271**/271A**	Pin 2 – Ground	audio, you will need to move the "SPKR" jumper to	G 💿 8		
TM-451/455	Pin 3 – PTT	pin #4 (9600 baud output). Note that some newer			
TM-D700/D700A	Pin 4 – 9600 Out	radios do NOT provide this output, so this may not	G O O 7		
TM-D710/710A/E	Pin 5 – 1200 Out	apply to your radio.	G 🔍 🔿 6		
TM-G707	Pin 6 – Squelch		0 6 5		
TM-733A		**Only European models of the TM-271 and TM-	PWR 0 0 4		
TM-V7/V7A/V71A		271A have the 6-pin mini-DIN Data Port. All other			
TM-V708		models will need to use the RJ-45 Mic cable.			
TS-480HX/SAT			MIC 🦕 🚬 2		
		Check Other Listings for these radios - you may be able to use the DIN BACKET ACCESSORY or	SPKR		
Check the SLMOD6PM		able to use the DIN, PACKET, ACCESSORY, or DATA jack			
Jumper Module list		DATA Jack			

KENWOOD

13-Pin DIN Accessory Port Connector - TGR-SLUSB13K-P

Our 13-pin cable works with <u>ALL</u> Kenwood radio's that have a 13-pin Accessory Port, however there are two possible jumper settings. If your radio is not listed in Figure 1 or Figure 2, then you will need to try both jumper settings to determine which PTT configuration your radio requires. We suggest that you try the settings in Figure 1 first. Your radio will <u>NOT</u> be damaged if you install the PTT jumper using the wrong configuration - you just won't be able to transmit! After you have installed the jumpers, be sure to set the sound card audio levels as outlined in the SignaLink manual. If you do not set the levels correctly, then the SignaLink may not transmit, and you might mistake the problem for incorrect jumper settings.



* Can use the SLMOD13K Jumper Module for Kenwood radios that have the 13 Pin Din Accessory Port Connector - See additional notes in Module Jumper section

MIDLAND	4-Pin Round Mic Connector - TGR-SLUSB4R-P			
Radio Models	Pin-out	Notes	JP-1	
13-510	Pin 1 – Mic Input Pin 2 – GND Pin 3 – N/C Pin 4 – PTT		G G G PWR PTT MIC SPKR	

RADIO SHACK	RJ-45 Mic Connector - TGR-SLUSBRJ4-P			
Radio Models	Pin-out	Notes	JP-1	
HTX-212 HTX-242	Pin 1 – N/C Pin 2 – GND Pin 3 – N/C Pin 4 – N/C Pin 5 – Mic Input Pin 6 – PTT Pin 7 – N/C Pin 8 – N/C	Speaker audio is available on some models. Check your radio manual for availability of these signals and add the appropriate jumpers.	G G G PWR PTT MIC SPKR	

SGC	8-Pin Round Mic Connector - TGR-SLUSB8R-P			
Radio Models	Pin-out	Notes	JP-1	
SGC-2020	Pin 1 – Mic Pin 2 – PTT Pin 3 – N/C Pin 4 – N/C Pin 5 – N/C Pin 6 – RX Audio Pin 7 – Mic GND Pin 8 – GND		G G G PWR PTT MIC SPKR SPKR B B SPKR B B SPKR B S SPKR B S S S S S S S S S S S S S S S S S S	

TEN-TEC	4-Pin Round N	-Pin Round Mic Connector - TGR-SLUSB4R-P					
Radio Models	Pin-out	Notes	JP-1				
Corsair 561 Omni VI Pegasus Scout	Pin 1 – Mic Input Pin 2 – GND Pin 3 – PTT Pin 4 – N/C	These jumper settings work with most Ten-Tec Mic jacks (not just the Pegasus). However you should verify that your radio has the same pin-out before installing them.	G O O 8 G O 7 G O 6 5				
		Check Other Listings for these radios - you may be able to use the DIN, PACKET, ACCESSORY, or DATA jack	PWR PTT MIC SPKR				

TEN-TEC	5-Pin DIN Accessory Connector - TGR-SLUSB5PD-P				
Radio Models	Pin-out	Pin-out Notes			
Argonaut V Jupiter Omni VII Pegasus Check the SLMOD5PD Jumper Module list	Pin 1 - Mic Input Pin 2 - GND Pin 3 - PTT Pin 4 - AF Output Pin 5 - NC	The Ten-Tec Jupiter must be in "Line" to use the ACCY jack (set in radio menu).	G G G PWR PTT MIC SPKR G G G G G G G G G G G G G G G G G G G		

TEN-TEC	8-Pin DIN Accessory Connector - TGR-SLUSB8PD-P			
Radio Models	Pin-out	Notes	JP-1	
Argonaut VI Eagle Orion** Orion II ***	Pin 1 - Aux In Pin 2 - GND Pin 3 - PTT Pin 4 - Line Out** Pin 5 - NC	**On the original Orion, the "Audio" menu determines what audio is available on pins 4 and 6, so the SPKR jumper will need to be set accordingly.	G O O 8 G O 7 G O 6 0 5	
TEN-TEC Delta II Users: Our 8-pin DIN cable is NOT compatible with the TEN-TEC Delta II. You must connect the SignaLink to this radio's 4-pin Mic jack.	Pin 6 - Line Out** Pin 7 - FSK Pin 8 - NC	***On the Orion II, Pin #4 is ALWAYS the audio output. Can use the SLMOD5PD Plug & Play per Tigertonics e-mail of 8June2011	PWR PTT MIC SPKR	

YAESU 4-Pin Round Mic Connector - TGR-SLUSB4R-P					
Radio Models	Pin-out	Notes	JP-1		
FT-7B	Pin 1 – GND				
FT-101	Pin 2 – Mic Input		G 🔘 🔘 8		
FT-101ZD	Pin 3 – PTT		G O O 7		
FT-221	Pin 4 - N/C		G 🔍 🔘 6		
FT-225			0 0 5		
FT-227R			PWR O O 4		
FT-901DM			PTT 3		
			SPKR O 1		

YAESU8-Pin Round Mic Connector - TGR-SLUSB8R-P				
Radio Models	Pin-out	Notes	JP-1	
FT-1 FT-102/107/107M FT-290 FT-707/736/736R FT-747/757 FT-757GX/767GX FT-840 FT-847** FT-890** FT-920**/950**/980** FT-920**/950**/980** FT-990** FT-1000**/1000D** FT-1000MP**/DX1200** FT-2000/2200 FT-DX5000** FT-5100 Check the SLMOD8RY Jumper Module list	Pin 1 – N/C Pin 2 – N/C Pin 3 – N/C Pin 4 – N/C Pin 5 – N/C Pin 6 – PTT Pin 7 – GND Pin 8 – Mic Input	 **On the FT-890, FT-980, FT-990, and the FT-1000 and 1000D, you should also jumper Pin #2 and Pin #5 to Ground. **On the FT-847, FT-920, FT-950, FT-1000MP and FTDX5000, you should also jumper Pin #5 to Ground. Speaker audio is available on some models. Check your radio manual for availability of these signals and add the appropriate jumpers. Check Other Listings for these radios - you may be able to use the DIN, PACKET, ACCESSORY, or DATA jack When using the SLMOD8RY - check jumpers: G1 + G2 installed for: FT-890/980/990/1000/1000D (picture in section on modules) Only G1 installed for: FT-847/920/950/1000MP 	G G G PWR PTT MIC SPKR G C C C C C C C C C C C C C C C C C C	

YAESU	RJ-11 Mic Connector - TGR-SLUSBRJ1-P				
Radio Models	Pin-out	Notes	JP-1		
FT-90/90R	Pin 1 - N/C	**With the FT-100, the PTT jumper MUST be replaced	G O 8		
FT-100**	Pin $2 - N/C$	with a standard 1/4 watt 27k resistor.			
FT-1500M	Pin 3 – +9V		G O O 7		
FT-1802 / 1900R	Pin 4 – GND	Other Yaesu models with an RJ-11 Mic jack might also	G 🔍 🦰 6		
FT-2600/2800M/2900R	Pin 5 – Mic Input	use these same settings (check your radio manual).	0 7 2 5		
FT-7800R/7900R	Pin 6 – SW1		PWR		
FTM-350	Pin 7 - N/C	Check Other Listings for these radios - you may be	PTT 7 3		
FTM-3100R/3200DR	Pin 8 – N/C	able to use the DIN, PACKET, ACCESSORY, or	MIC 🧹 💿 2		
		DATA jack	SPKR 0 0 1		

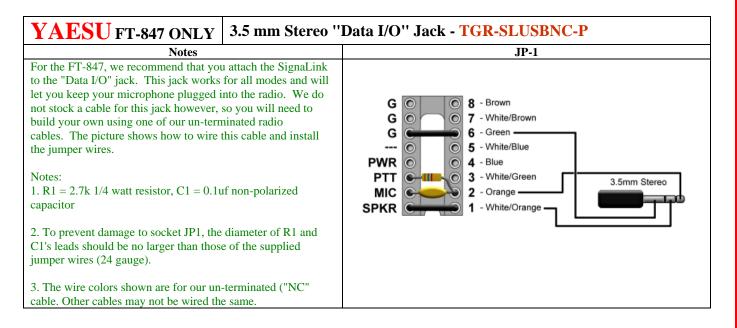
YAESU	RJ-45 Mic Co	RJ-45 Mic Connector - TGR-SLUSBRJ4-P					
Radio Models	Pin-out	Notes	JP-1				
FT-2400 FT-2500 System 600	Pin 1 – N/C Pin 2 – See text Pin 3 – PTT Pin 4 – Mic Input Pin 5 – GND Pin 6 – N/C Pin 7 – See text Pin 8 – N/C	Speaker audio is available on some models. Check your radio manual for availability of these signals and add the appropriate jumpers. Add either a jumper from Pin 7 to Pin SPKR, or as shown Pin 2 to SPKR. Check Other Listings for these radios - you may be able to use the DIN, PACKET, ACCESSORY, or DATA jack	G G G PWR PTT SPKR G G G G G G G G G G G G G G G G G G G				

YAESU	RJ-45 Mic Co	RJ-45 Mic Connector - TGR-SLUSBRJ4-P					
Radio Models	Pin-out	Notes	JP-1				
FT-450 FT-600 FT-817/857/897 FT-900 VX-2100/2200	$\begin{array}{l} \operatorname{Pin} 1 - \operatorname{N/C} \\ \operatorname{Pin} 2 - \operatorname{N/C} \\ \operatorname{Pin} 3 - \operatorname{N/C} \\ \operatorname{Pin} 4 - \operatorname{Mic} \\ \operatorname{GND} \\ \operatorname{Pin} 5 - \operatorname{Mic} \\ \operatorname{Pin} 6 - \operatorname{PTT} \\ \operatorname{Pin} 7 - \operatorname{GND} \\ \operatorname{Pin} 8 - \operatorname{N/C} \end{array}$	Receive Audio is not available on this connector. Check Other Listings for these radios - you may be able to use the DIN, PACKET, ACCESSORY, or DATA jack	G G G PWR PTT MIC SPKR C C 1				

YAESU	5-Pin DIN Pa	in DIN Packet Connector - TGR-SLUSB5PD-P			
Radio Models	Pin-out	Notes	JP-1		
FT-920* FT-1000*** FT-1000D*** FT-1000MP## FT-1000MPMKV** FT-1000MPMKV-Field** FT-2000 FTDX-5000/D/MP FTDX-9000/D/MP	Pin 1 – Data In Pin 2 – GND Pin 3 – PTT Pin 4 – Data Out Pin 5 – NC	 *On the FT-920, the AFSK/FSK switch MUST be set to AFSK, and you must be in "Data" mode (push the front panel "Data" button). The Mic Gain control appears to affect the operation of the Packet jack, so we suggest setting this to 50% and then adjusting as needed **The FT-1000MPMKV and FT-1000MKV Field MUST be in "Packet" mode (NOT USB!) for digital operation. For PSK31 or other "USB" digital modes, you'll need to set your radio's "User Mode" (selection 8-6) to "PS31U". This will configure the radio to look at the Packet jack and use the correct side band for PSK31. For more detailed information on this (including settings for other modes), see "Digital Modem Operation" in your radio manual. ***The 5-pin DIN jack on this radio supports only FM and LSB, which are not compatible with the majority of digital modes. We recommend connecting the SignaLink to the Mic jack instead. 	G G G G G G G G G G G G G G G G G G G		
Check the SLMOD5PD Jumper Module List		## A link to detailed setup information for this radio is available on the TigerTronics web site.			

YAESU	6-Pin Mini Dl	N Data Port Connector - TGR-SLUSB6PM-P		
Radio Models	Pin-out	Notes	JP-1	
FT-100/100D FT-817/817ND FT-450* FT-840**/847** FT-857/897 FT-950***/991 FT-1500M FT-7100/7800R FT-7900R FT-8000/8100/8500 FT-8000/8100/8500 FT-8800R/8900R FTDX-1200 FTDX-1200 FTDX-1200 FTDX-3000 FTM-100DR## FTM-350** FTM-400## VX-1700 Check the SLMOD6PM Jumper Module list	Pin 1 – Data In Pin 2 – Ground Pin 3 – PTT Pin 4 – 9600 Out Pin 5 – 1200 Out Pin 6 – Squelch	 For special signals requiring un-filtered "discriminator" audio, you will need to move the "SPKR" jumper to pin #4 (9600 baud output). Note that some newer radios do NOT provide this output, so this may not apply to your radio. Power is not available on any 6-pin mini DIN Data Port, so you will need to use external power for the SignaLink Model SL-1+. *FT-450 - Some users have reported that this radio has a very sensitive Data Port, making power adjustments with the SignaLink USB's TX knob somewhat touchy. If this is the case with your radio, then please check the Signalink web page for a simple solution to this problem. ***FT-950 - Some users of this radio have reported that the Notch Filter is turned on after a hard reset. If you see a "hole" in your waterfall display, then please make sure that your Notch Filter is turned OFF. **The 6-pin mini-DIN Data Port on the FT-840 and FT-847 supports FM and LSB only. It may also function only on VHF (not HF). Because of this, we recommend using the Mic jack, or on the FT-847, the Data I/O jack (see below). **The FTM-350 requires Yaesu's CT-141 adapter to convert from it's (unusual) 8-pin mini-DIN connector to a standard 6-pin mini-DIN. This adapter should be available from any authorized Yaesu dealer. 	G G G PWR PTT MIC SPKR SPKR SPKR SPKR	

***<u>NOTE:</u> If you are using an ICOM IC-7000, IC-746PRO, or **Yaesu FT-450**, please note that some customers have reported that these radios have unusually sensitive Data Ports, which can make adjustment of the SignaLink's TX knob somewhat difficult. If this is the case with your radio (and the solutions listed above don't work), then you can easily resolve the issue by replacing the SignaLink's "Mic" jumper wire with a standard 1/4 watt size resistor. Both a 47K and 100K resistor have been reported by several customers to allow easy adjustment of the power level. Please note that you <u>**DO NOT**</u> solder this resistor. It simply plugs into the JP1 socket in place of the MIC jumper wire. <u>Be sure that you use a 1/4 watt size resistor, so that you do not damage the SignaLink's socket!</u>



Unterminated RJ-45 Cable - TGR-SL-CABNC

Cable Lengths						
2ft Longth	SLCAB13I	SLCAB13K	SLCAB5PD	SLCAB6PM	SLCAB8PD	SLCABK3
3ft Length	SLCABNC					
18 Inch Length	SLCAB4R	SLCAB8R	SLCABRJ1			
2ft Length	SLCABRJ4					

Refer to the DX Engineering web site for Jumper Module information.



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