

## Lynx 2 to Microlynx Transport Port Comparison

Revision 2.0, by Bill Bainbridge (brainditch)

From Lynx 2 manual, Table 3-4, pg. 3-12;

From Microlynx manual, Table 7-1, pg. 7-4;

### LYNX 2 -

#### **Main Transport Connector**

##### **Pin # ] [ Signal Description**

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1. Ground
2. Transport ground sense
3. Stop (still) command
4. Capstan frequency output
5. N/C
6. Lifter drop command
7. Fast forward/direction command
8. Record tally
9. Auxiliary in 2
10. Lock Light or Ch 4 insert command
11. Channel 1 insert command
12. Rehearse command
13. Servo relay-A N/C
14. Servo relay-B common
15. Servo relay-B N/O
16. RS422(-)/RS232 TX(-)

17. N/C
18. +5V (50 mA max)
19. Record-off command collector (+)
20. Search command collector (+)
21. Adapter detect
22. AUX out opto
23. Transport command common
24. Rewind command
25. Play tally
26. Tach direction sense
27. Channel 2 insert command
28. Video insert command or Ch 3
29. Servo relay-A N/O
30. Servo relay-A common
31. Servo relay-B N/C
32. RS422 TX (+)
33. N/C
34. Ground
35. Record-off command emitter (-)
36. Search command emitter (-)
37. Play command
38. Search volts out
39. Capstan volts out
40. Record-on command

- 41. Auxiliary in 1
- 42. Tach pulse in
- 43. AUX out O/C
- 44. -12V (50 mA max)
- 45. +12V (50 mA max)
- 46. Mute relay N/O
- 47. Mute relay N/C
- 48. Mute relay common
- 49. RS422 RCV(-)/RS232 RCV(-)
- 50. RS422 RCV(+)

### **MICROLYNX-**

Notes:

1. Signal Descriptions in **bold** indicate having an absolute or very strong equivalent to Lynx-2 ports.
2. Signal Descriptions in underline have a weak or uncertain equivalent (or upgraded/downgraded functional equivalent), which may only mean that the verbiage or names for the functions may have changed.
3. Signal Descriptions with no textual emphasis, or a question mark (?) has no known equivalence to Lynx-2 ports or is highly confusing.
4. The terms such as "input", "output", "power supply source" or "undefined" that appear in parentheses () are speculations as to the signal flow direction or conditions based on known clues from common practice, as well as from data that TimeLine has documented. No guarantees as to its accuracy should be implied- "trust, but verify" prior to causing potential harm to connected circuits of great value. You've been warned.

### **Main Transport Connector**

**Pin # ] [ Signal Description**

1. **Ground**
2. **Transport Ground Sense** (special ground input)
3. **Ground**
4. Assemble (output)
5. **Fast Forward** (output)
6. **Rewind** (output)
7. Mute (output)
8. Pull-up common (special ground or special supply?)
9. **Record Tally** (input)
10. **Tach** (input)
11. **+ 5 V** (power supply source)
12. **Servo relay B, normally closed contact** (undefined)
13. **Rehearse** (output)
14. **Video Track Enable (INS)** (output)
15. **Ground**
16. **Ground**
17. **Play Tally** (input)
18. Audio Track Enable (A2) (output)
19. **RS422, TX-** (output)
20. **RS422, TX+** (output)
21. **RS422, RX-** (input)
22. **RS422, RX+** (input)

- 23. Record Exit (output)
- 24. Search Enable (output)
- 25. **Aux In** (input)
- 26. **Search Control Voltage** (output)
- 27. **Capstan Frequency** (output)
- 28. **Tape Direction** (ouput)
- 29. **Servo Relay B, Normally Open Contact** (undefined)
- 30. **Capstan Control Voltage** (output)
- 31. **Record In** (output)
- 32. **Servo Relay B Common** (special ground)
- 33. Audio Track Enable (A1)
- 34. **Servo Relay A Common** (special ground)
- 35. **Lifter Enable, In/Out** (output)
- 36. **Command Common** (special ground)
- 37. **+12 V** (supply source)
- 38. **-12 V** (supply source)
- 39. **Stop** (output)
- 40. **Play** (output)

**Lynx-2 Pin Assignments & Comparison To Microlynx Pin Assignments**

<b>Pin # ]</b>	<b>[ Signal Description</b>	<b>Microlynx Equivalent ]</b>
1.	<b>Ground</b> .....	1, 3, 15, 16
2.	<b>Transport ground sense</b> .....	2
3.	<b>Stop (still) command</b> .....	39

4.	<b>Capstan frequency output</b> .....	27
5.	N/C.....	?
6.	<b>Lifter drop command</b> .....	35 (Lifter Enable In/Out)
7.	<b>Fast forward/direction command</b> .....	5
8.	<b>Record tally</b> .....	9
9.	Auxiliary in 2.....	?
10.	Lock Light or Ch 4 insert command.....	?
11.	Channel 1 insert command.....	?
12.	<b>Rehearse command</b> .....	13
13.	Servo relay-A N/C.....	?
14.	<b>Servo relay-B common</b> .....	32
15.	<b>Servo relay-B N/O</b> .....	29
16.	<b>RS422(-)/RS232 TX(-)</b> .....	19
17.	N/C.....	?
18.	<b>+5V (50 mA max)</b> .....	11
19.	<u>Record-off command collector (+)</u> .....	23 (Record Exit)
20.	<u>Search command collector (+)</u> .....	24 (Search Enable)
21.	Adapter detect.....	?
22.	AUX out opto.....	?
23.	<b>Transport command common</b> .....	36 (Command Common)
24.	<b>Rewind command</b> .....	6
25.	<b>Play tally</b> .....	17
26.	<b>Tach direction sense</b> .....	28 (Tape Direction)
27.	Channel 2 insert command.....	?

28.	<b>Video insert command or Ch 3</b> .....	14 (Video Track Enable (INS))
29.	Servo relay-A N/O.....	?
30.	<b>Servo relay-A common</b> .....	34
31.	<b>Servo relay-B N/C</b> .....	12
32.	<b>RS422 TX (+)</b> .....	20
33.	N/C.....	?
34.	<b>Ground</b> .....	1, 3, 15, 16
35.	<u>Record-off command emitter (-)</u> .....	23 (Record Exit)
36.	<u>Search command emitter (-)</u> .....	24 (Search Enable)
37.	<b>Play command</b> .....	40
38.	<b>Search volts out</b> .....	26
39.	<b>Capstan volts out</b> .....	30
40.	<b>Record-on command</b> .....	31 (Record In)
41.	<b>Auxiliary in 1</b> .....	25 (Aux In 1)
42.	<b>Tach pulse in</b> .....	10
43.	AUX out O/C.....	?
44.	<b>-12V (50 mA max)</b> .....	38
45.	<b>+12V (50 mA max)</b> .....	37
46.	<u>Mute relay N/O</u> .....	7 (Mute)
47.	<u>Mute relay N/C</u> .....	7 (Mute)
48.	<u>Mute relay common</u> .....	7 (Mute)
49.	<b>RS422 RCV(-)/RS232 RCV(-)</b> .....	21
50.	<b>RS422 RCV(+)</b> .....	22

