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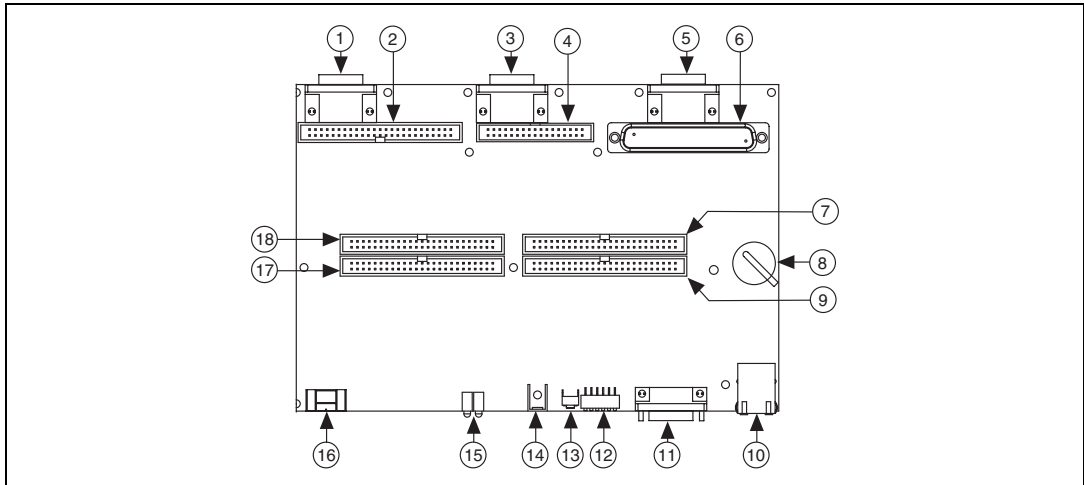
 **CLICK HERE**

**sbRIO-9637**

# NI SINGLE-BOARD RIO QUICK REFERENCE

## sbRIO-961x/963x/964x

Go to [ni.com/info](http://ni.com/info) and enter the info code `sbriodocs` to locate the user guide for this product.



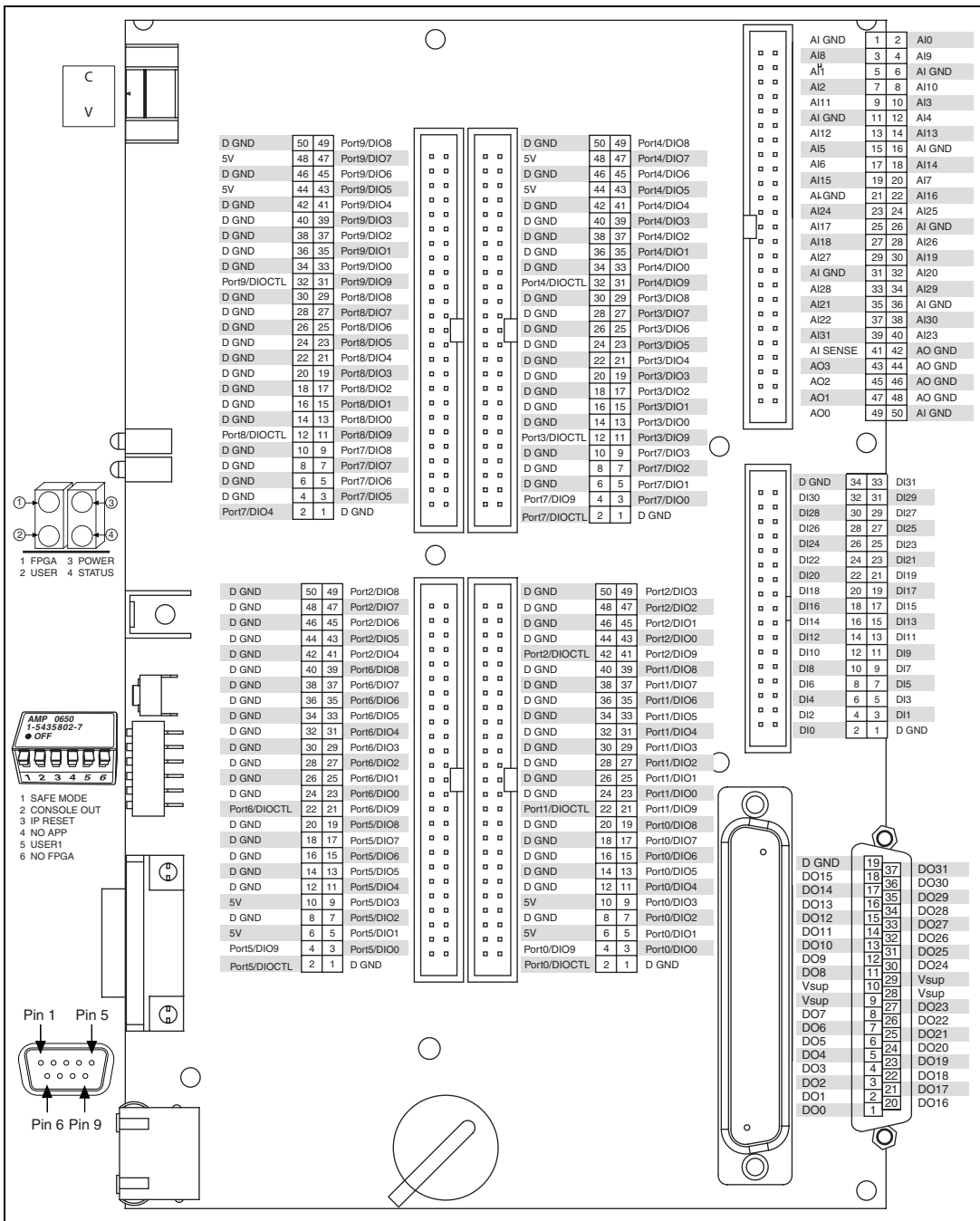
- |   |                            |                          |
|---|----------------------------|--------------------------|
| 1 J10, Connector for C Series Module        | 7 P4, 3.3 V Digital I/O    | 13 Reset Button          |
| 2 J7, Analog I/O Connector                  | 8 Backup Battery           | 14 P1, Ground Lug        |
| 3 J9, Connector for C Series Module         | 9 P2, 3.3 V Digital I/O    | 15 LEDs                  |
| 4 J6, 24 V Digital Input (sbRIO-964x Only)  | 10 J2, RJ-45 Ethernet Port | 16 J3, Power Connector   |
| 5 J8, Connector for C Series Module         | 11 J1, RS-232 Serial Port  | 17 P3, 3.3 V Digital I/O |
| 6 J5, 24 V Digital Output (sbRIO-964x Only) | 12 DIP Switches            | 18 P5, 3.3 V Digital I/O |

Signal Pairs for Differential AI on J7					
Channel	Signal+	Signal-	Channel	Signal+	Signal-
0	AI0	AI8	16	AI16	AI24
1	AI1	AI9	17	AI17	AI25
2	AI2	AI10	18	AI18	AI26
3	AI3	AI11	19	AI19	AI27
4	AI4	AI12	20	AI20	AI28
5	AI5	AI13	21	AI21	AI29
6	AI6	AI14	22	AI22	AI30
7	AI7	AI15	23	AI23	AI31

Status LED	
# of Flashes	Indication
1	IP unconfigured
2	Software installation error
3	Safe mode on
4	Check RT VI
Solid or continuously flashing	Check network and DHCP or contact NI

### Enabling Console Out on J1 (Serial Port)

- Turn DIP switch 2 on.
- Connect null-modem cable.
- Configure host settings.
  - 9,600 bps
  - Eight data bits
  - No parity
  - One stop bit
  - No flow control



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