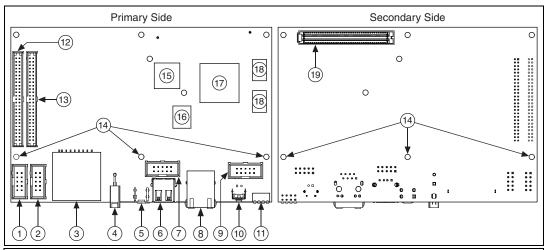
## NI SINGLE-BOARD RIO QUICK REFERENCE

## sbRIO-9623/9626/9633/9636

Go to ni.com/info and enter the Info Code sbriodocs to locate the user guide for this product.



- 1 W502, RS-485 (COM3) 2 W503, RS-232 (COM2)
- 3 J504, SDHC
- 4 J506, Power Connector
- 5 Chassis Ground Bracket
- 6 J507, USB Host Port
- 7 W500, CAN(CAN0)
- 8 J505, RJ-45 Ethernet Port9 W501, RS-232 Serial (COM1)
- 10 Reset Switch
- 11 LEDs
- 12 J502, DIO
- 13 J503, MIO

- 14 Mounting Holes Connected to Chassis Grounds
- 15 FPGA
- 16 NAND Flash
- 17 Processor
- 18 DDR Memory
- 19 J1, RIO Mezzanine Card Connector

	J502, DIO			J503, MIO				
	D GND	1	2	DIO4	AI GND	1	2	AI0
::	D GND	3	4	DIO5	AI8	3	4	AI GND
¶::U	D GND	5	6	DIO6	AI9	5	6	Al1
Pin 1	D GND	7	8	DIO7	AI GND	7	8	Al2
	D GND	9	10	DIO8	Al10	9	10	AI GND
RS-232	D GND	11	12	DIO9	Al11	11	12	AI3
SHIELD 10 9 RI	D GND	13	14	DIO10	AI GND	13	14	Al4
CTS 8 7 RTS	D GND	15	16	DIO11	Al12	15	16	AI GND
DSR 6 5 GND	D GND	17	18	DIO12	Al13	17	18	AI5
DTR 4 3 TXD	D GND	19	20	DIO13	AI GND	19	20	Al6
RXD 2 1 DCD	D GND	21	22	DIO14	Al14	21	22	AI GND
CAN	D GND	23	24	DIO15	Al15	23	24	AI7
	D GND	25	26	DIO16	AI GND	25	26	AI GND
	D GND	27	28	DIO17	AO GND	27	28	AO0
NC 8 7 CAN0_H V- (GND) 6 5 SHIELD	D GND	29	30	DIO18	AO GND	29	30	AO1
	D GND	31	32	DIO19	AO GND	31	32	AO2
	D GND	33	34	DIO20	AO GND	33	34	AO3
CAN0_L 2 1 NC	D GND	35	36	DIO21	AO GND	35	36	NC
RS-485	D GND	37	38	DIO22	AO GND	37	38	NC
SHIELD 10 9 TXD-	D GND	39	40	DIO23	AO GND	39	40	NC
TXD+ 8 7 NC	D GND	41	42	DIO24	AO GND	41	42	NC
NC 6 5 RXD-	D GND	43	44	DIO25	D GND	43	44	DIO0
RXD+ 4 3 NC	D GND	45	46	DIO26	D GND	45	46	DIO1
NC 2 1 GND	D GND	47	48	DIO27	D GND	47	48	DIO2
	+5V	49	50	+5V	D GND	49	50	DIO3

0000	Status LED
# of Flashes	Indication
2	No software installed or software installation error
3	Safe mode on
4	Check RT VI
Continuously flashing or solid	Unrecoverable error, contact NI

J506, Power Connector





Table 1. RIO Mezzanine Card Connector Pinout

1-RESERVED   2-RESERVED   3-RESERVED   3-RESERVED   5-RESERVED   1-RESERVED   1-R			ī	ı	ı	ı	
13-RESERVED	1-RESERVED	2-RESERVED	3-RESERVED	4-RESERVED	5-RESERVED	6-RESERVED	
19-RESERVED   20-RESERVED   21-RESERVED   22-RESERVED   22-RESERVED   25-RESERVED   25-RESERVED   25-RESERVED   25-RESERVED   25-RESERVED   26-RESERVED   26-RESERVED   36-GND   31-RESERVED   33-RESERVED   33-RESERVED   33-RESERVED   33-RESERVED   33-RESERVED   33-RESERVED   33-RESERVED   34-RESERVED   41-GND   42-RESERVED   43-RESERVED   44-RESERVED   44-RESERVED   44-RESERVED   44-RESERVED   44-RESERVED   44-RESERVED   45-RESERVED   46-RESERVED   47-GND   48-RESERVED   48-RESERVED   55-RESERVED   66-RESERVED   77-RESERVED   78-RESERVED   78-RESERVED   78-RESERVED   88-RESERVED   8	7-RESERVED	8-RESERVED	9-RESERVED	10-RESERVED	11-RESERVED	12-RESERVED	
25-RESERVED   26-RESERVED   27-RESERVED   28-RESERVED   31-RESERVED   31-RESERVED   32-RESERVED   33-RESERVED   33-RESERVED   34-RESERVED   35-USB_D-   36-GND   37-RESERVED   33-RESERVED   34-RESERVED   44-GND   42-RESERVED   44-RESERVED   44-RESERVED   44-RESERVED   44-RESERVED   44-RESERVED   44-RESERVED   45-RESERVED   45-RESERVED   45-RESERVED   59-RESERVED   59-RESERVED   51-RESERVED   51-RESERVED   52-RESERVED   59-RESERVED   66-SV   55-RESERVED   66-RESERVED   67-RESERVED   68-RESERVED   66-SV   66-RESERVED   68-RESERVED   68-RESERVED   68-RESERVED   68-RESERVED   68-RESERVED   68-RESERVED   68-RESERVED   77-RESERVED   77-RESERVED   77-RESERVED   77-RESERVED   77-RESERVED   77-RESERVED   78-RESERVED   88-RESERVED   89-DIO31   100-DIO39   100-DIO39   100-DIO39   100-DIO39   100-DIO39   100-DIO30   100-DIO39   100-DIO30   100-DIO39   100-DIO30   100-DIO30   100-DIO39   100-DIO30   100-DIO30	13-RESERVED	14-RESERVED	15-RESERVED	16-RESERVED	17-GND	18-RESERVED	
33-RESERVED   33-RESERVED   33-RESERVED   33-RESERVED   34-RESERVED   35-USB_D   36-GND   37-RESERVED   38-RST#   39-RESERVED   40-RESERVED   41-GND   42-RESERVED   43-RESERVED   43-RESERVED   43-RESERVED   43-RESERVED   43-RESERVED   43-RESERVED   43-RESERVED   43-RESERVED   44-RESERVED   43-RESERVED   44-RESERVED   55-RESERVED   66-SV   66-SV   66-SERVED   70-RESERVED   77-RESERVED   72-SV   73-RESERVED   74-RESERVED   75-RESERVED   70-RESERVED   77-RESERVED   77-RESERVED   78-GND   78-SESERVED   86-RESERVED   87-RESERVED   88-RESERVED   88-RESER	19-RESERVED	20-RESERVED	21-RESERVED	22-RESERVED	23-GND	24-RESERVED	
37.RESERVED   39-RESERVED   40-RESERVED   41-GND   42-RESERVED     43.RESERVED   44-RESERVED   45-RESERVED   46-RESERVED   47-GND   48-RESERVED     49.RESERVED   50-RESERVED   51-RESERVED   52-RESERVED   53-RESERVED   54-V     55-RESERVED   56-RESERVED   51-RESERVED   52-RESERVED   59-RESERVED   60-SV     61-RESERVED   68-RESERVED   68-RESERVED   66-RESERVED   66-RESERVED   66-SV     61-RESERVED   68-RESERVED   68-RESERVED   71-RESERVED   72-SV   73-RESERVED   71-RESERVED   78-GND     79-RESERVED   74-RESERVED   75-RESERVED   76-RESERVED   83-GND   84-RESERVED   88-RESERVED   88-GND   89-DIO47   90-DIO15     91-RESERVED   95-RISOR   95-GND   99-DIO31   100-DIO79   95-DIO46   96-GND     97-DIO95   98-GND   99-DIO31   100-DIO79   95-DIO46   96-GND     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DI	25-RESERVED	26-RESERVED	27-RESERVED	28-RESERVED	29-USB_D+	30-GND	
43-RESERVED   44-RESERVED   45-RESERVED   46-RESERVED   47-GND   48-RESERVED     49-RESERVED   50-RESERVED   51-RESERVED   52-RESERVED   53-RESERVED   54-SV     55-RESERVED   50-RESERVED   57-RESERVED   58-RESERVED   59-RESERVED   60-SV     61-RESERVED   62-RESERVED   63-RESERVED   66-SV   77-RESERVED   66-SV     73-RESERVED   68-RESERVED   68-RESERVED   77-RESERVED   77-RESERVED   77-RESERVED   78-GND     79-RESERVED   80-RESERVED   81-RESERVED   82-RESERVED   83-GND   84-RESERVED     85-RESERVED   86-RESERVED   87-RESERVED   88-GND   89-DIO47   90-DIO15     91-RESERVED   92-DIO63   93-GND   94-DIO79   95-DIO46   96-GND     97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO12     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO41   114-GND	31-RESERVED	32-RESERVED	33-RESERVED	34-RESERVED	35-USB_D-	36-GND	
49-RESERVED   50-RESERVED   51-RESERVED   52-RESERVED   53-RESERVED   54-5V     55-RESERVED   56-RESERVED   57-RESERVED   58-RESERVED   60-5V     61-RESERVED   62-RESERVED   63-RESERVED   64-RESERVED   66-RESERVED   66-SV     67-RESERVED   68-RESERVED   69-RESERVED   70-RESERVED   71-RESERVED   72-SV     73-RESERVED   74-RESERVED   75-RESERVED   76-RESERVED   77-RESERVED   78-GND     79-RESERVED   86-RESERVED   81-RESERVED   82-RESERVED   83-GND   84-RESERVED   84-RESERVED     85-RESERVED   86-RESERVED   87-RESERVED   88-GND   89-DIO47   90-DIO15     91-RESERVED   92-DIO63   93-GND   94-DIO79   95-DIO46   96-GND     97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     105-DIO93   116-GND   117-DIO29   118-DIO77   113-DIO44   114-GND     112-GND	37-RESERVED	38-RST#	39-RESERVED	40-RESERVED	41-GND	42-RESERVED	
55-RESERVED   56-RESERVED   57-RESERVED   58-RESERVED   60-5V     61-RESERVED   62-RESERVED   63-RESERVED   64-RESERVED   65-RESERVED   66-5V     67-RESERVED   68-RESERVED   69-RESERVED   70-RESERVED   71-RESERVED   72-5V     73-RESERVED   74-RESERVED   75-RESERVED   76-RESERVED   77-RESERVED   78-GND     79-RESERVED   80-RESERVED   81-RESERVED   82-RESERVED   83-GND   84-RESERVED     91-RESERVED   86-RESERVED   87-RESERVED   88-GND   89-DIO47   90-DIO15     97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND     115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12     121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11     133-DIO91   134-GND <td< td=""><td>43-RESERVED</td><td>44-RESERVED</td><td>45-RESERVED</td><td>46-RESERVED</td><td>47-GND</td><td>48-RESERVED</td></td<>	43-RESERVED	44-RESERVED	45-RESERVED	46-RESERVED	47-GND	48-RESERVED	
61-RESERVED   62-RESERVED   63-RESERVED   66-SV     67-RESERVED   68-RESERVED   69-RESERVED   70-RESERVED   71-RESERVED   72-SV     73-RESERVED   74-RESERVED   75-RESERVED   76-RESERVED   77-RESERVED   78-GND     79-RESERVED   80-RESERVED   81-RESERVED   82-RESERVED   83-GND   84-RESERVED     85-RESERVED   86-RESERVED   87-RESERVED   88-GND   89-DIO47   96-DIO15     91-RESERVED   92-DIO63   93-GND   94-DIO79   95-DIO46   96-GND     97-DIO95   98-GRD   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND     115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12     121-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   133-DIO91   134-DIO41	49-RESERVED	50-RESERVED	51-RESERVED	52-RESERVED	53-RESERVED	54-5V	
67-RESERVED   68-RESERVED   69-RESERVED   70-RESERVED   71-RESERVED   72-SV     73-RESERVED   74-RESERVED   75-RESERVED   76-RESERVED   77-RESERVED   78-GND     79-RESERVED   80-RESERVED   81-RESERVED   82-RESERVED   83-GND   84-RESERVED     85-RESERVED   86-RESERVED   87-RESERVED   88-GND   89-DIO47   90-DIO15     91-RESERVED   92-DIO63   93-GND   94-DIO79   95-DIO46   96-GND     97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND     115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   126-DIO11     127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     145-DIO90   146-DIO58	55-RESERVED	56-RESERVED	57-RESERVED	58-RESERVED	59-RESERVED	60-5V	
73-RESERVED   74-RESERVED   75-RESERVED   76-RESERVED   77-RESERVED   78-GND     79-RESERVED   80-RESERVED   81-RESERVED   82-RESERVED   83-GND   84-RESERVED     85-RESERVED   86-RESERVED   87-RESERVED   88-GND   89-DIO47   90-DIO15     91-RESERVED   92-DIO63   93-GND   94-DIO79   95-DIO46   96-GND     97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND     115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12     121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11     127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO41     145-DIO92   146-DIO571	61-RESERVED	62-RESERVED	63-RESERVED	64-RESERVED	65-RESERVED	66-5V	
79-RESERVED   80-RESERVED   81-RESERVED   82-RESERVED   83-GND   84-RESERVED     85-RESERVED   86-RESERVED   87-RESERVED   88-GND   89-DIO47   90-DIO15     91-RESERVED   92-DIO63   93-GND   94-DIO79   95-DIO46   96-GND     97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND     115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12     121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11     127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     145-DIO90   146-DIO58   141-DIO26   142-GND   143-DIO41   144-DIO9     151-DIO89   152-GND   153-DIO25 <td>67-RESERVED</td> <td>68-RESERVED</td> <td>69-RESERVED</td> <td>70-RESERVED</td> <td>71-RESERVED</td> <td colspan="2">72-5V</td>	67-RESERVED	68-RESERVED	69-RESERVED	70-RESERVED	71-RESERVED	72-5V	
85-RESERVED   86-RESERVED   87-RESERVED   88-GND   89-DIO47   90-DIO15     91-RESERVED   92-DIO63   93-GND   94-DIO79   95-DIO46   96-GND     97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND     115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12     121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11     127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24 <td< td=""><td>73-RESERVED</td><td>74-RESERVED</td><td>75-RESERVED</td><td>76-RESERVED</td><td>77-RESERVED</td><td colspan="2">78-GND</td></td<>	73-RESERVED	74-RESERVED	75-RESERVED	76-RESERVED	77-RESERVED	78-GND	
91-RESERVED   92-DIO63   93-GND   94-DIO79   95-DIO46   96-GND     97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND     115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12     121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11     127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     139-GND   140-DIO58   141-DIO26   142-GND   143-DIO41   144-DIO9     145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-G	79-RESERVED	80-RESERVED	81-RESERVED	82-RESERVED	83-GND	84-RESERVED	
97-DIO95   98-GND   99-DIO31   100-DIO78   101-GND   102-DIO14     103-GND   104-DIO62   105-DIO30   106-GND   107-DIO45   108-DIO13     109-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND     115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12     121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11     127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     139-GND   140-DIO58   141-DIO26   142-GND   143-DIO41   144-DIO9     145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166	85-RESERVED	86-RESERVED	87-RESERVED	88-GND	89-DIO47	90-DIO15	
103-GND	91-RESERVED	92-DIO63	93-GND	94-DIO79	95-DIO46	96-GND	
110-DIO94   110-DIO61   111-GND   112-DIO77   113-DIO44   114-GND   115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12   121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11   127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND   133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10   139-GND   140-DIO58   141-DIO26   142-GND   143-DIO41   144-DIO9   145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND   151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8   157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7   163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6   175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5   181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND   187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4   193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3   199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND   205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2   211-GND   212-DIO50   213-DIO18   214-GND   225-DIO31   225-DIO16   225-DIO01   225-DIO01   225-DIO01   225-DIO04   225-DIO01   225-DIO06   223-DIO06	97-DIO95	98-GND	99-DIO31	100-DIO78	101-GND	102-DIO14	
115-DIO93   116-GND   117-DIO29   118-DIO76   119-GND   120-DIO12     121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11     127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     139-GND   140-DIO58   141-DIO26   142-GND   143-DIO41   144-DIO9     145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   18	103-GND	104-DIO62	105-DIO30	106-GND	107-DIO45	108-DIO13	
121-GND   122-DIO60   123-DIO28   124-GND   125-DIO43   126-DIO11     127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     139-GND   140-DIO58   141-DIO26   142-GND   143-DIO41   144-DIO9     145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   19	109-DIO94	110-DIO61	111-GND	112-DIO77	113-DIO44	114-GND	
127-DIO92   128-DIO59   129-GND   130-DIO75   131-DIO42   132-GND     133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     139-GND   140-DIO58   141-DIO26   142-GND   143-DIO41   144-DIO9     145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196	115-DIO93	116-GND	117-DIO29	118-DIO76	119-GND	120-DIO12	
133-DIO91   134-GND   135-DIO27   136-DIO74   137-GND   138-DIO10     139-GND   140-DIO58   141-DIO26   142-GND   143-DIO41   144-DIO9     145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-	121-GND	122-DIO60	123-DIO28	124-GND	125-DIO43	126-DIO11	
139-GND   140-DIOS8   141-DIO26   142-GND   143-DIO41   144-DIO9     145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-	127-DIO92	128-DIO59	129-GND	130-DIO75	131-DIO42	132-GND	
145-DIO90   146-DIO571   47-GND   148-DIO73   149-DIO40   150-GND     151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO30   213-DIO18   214-	133-DIO91	134-GND	135-DIO27	136-DIO74	137-GND	138-DIO10	
151-DIO89   152-GND   153-DIO25   154-DIO72   155-GND   156-DIO8     157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO30   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-D	139-GND	140-DIO58	141-DIO26	142-GND	143-DIO41	144-DIO9	
157-GND   158-DIO56   159-DIO24   160-GND   161-DIO39   162-DIO7     163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-	145-DIO90	146-DIO571	47-GND	148-DIO73	149-DIO40	150-GND	
163-DIO88   164-DIO55   165-GND   166-DIO71   167-DIO38   168-GND     169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   234-FPGA_VIO	151-DIO89	152-GND	153-DIO25	154-DIO72	155-GND	156-DIO8	
169-DIO87   170-GND   171-DIO23   172-DIO70   173-GND   174-DIO6     175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   234-FPGA_VIO	157-GND	158-DIO56	159-DIO24	160-GND	161-DIO39	162-DIO7	
175-GND   176-DIO54   177-DIO22   178-GND   179-DIO37   180-DIO5     181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   234-FPGA_VIO	163-DIO88	164-DIO55	165-GND	166-DIO71	167-DIO38	168-GND	
181-DIO86   182-DIO53   183-GND   184-DIO69   185-DIO36   186-GND     187-DIO85   188-GND   189-DIO21   190-DIO68   191-GND   192-DIO4     193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   234-FPGA_VIO     229-GND   230-DIO48   231-DIO16   232-GND   233-RESERVED   234-FPGA_VIO	169-DIO87	170-GND	171-DIO23	172-DIO70	173-GND	174-DIO6	
187-DIO85 188-GND 189-DIO21 190-DIO68 191-GND 192-DIO4   193-GND 194-DIO52 195-DIO20 196-GND 197-DIO35 198-DIO3   199-DIO84 200-DIO5 1201-GND 202-DIO67 203-DIO34 204-GND   205-DIO83 206-GND 207-DIO19 208-DIO66 209-GND 210-DIO2   211-GND 212-DIO50 213-DIO18 214-GND 215-DIO33 216-DIO1   217-DIO82 218-DIO49 219-GND 220-DIO65 221-DIO32 222-GND   223-DIO81 224-GND 225-DIO17 226-DIO64 227-GND 228-DIO0   229-GND 230-DIO48 231-DIO16 232-GND 233-RESERVED 234-FPGA_VIO	175-GND	176-DIO54	177-DIO22	178-GND	179-DIO37	180-DIO5	
193-GND   194-DIO52   195-DIO20   196-GND   197-DIO35   198-DIO3     199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   228-DIO0     229-GND   230-DIO48   231-DIO16   232-GND   233-RESERVED   234-FPGA_VIO	181-DIO86	182-DIO53	183-GND	184-DIO69	185-DIO36	186-GND	
199-DIO84   200-DIO5   1201-GND   202-DIO67   203-DIO34   204-GND     205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   228-DIO0     229-GND   230-DIO48   231-DIO16   232-GND   233-RESERVED   234-FPGA_VIO	187-DIO85	188-GND	189-DIO21	190-DIO68	191-GND	192-DIO4	
205-DIO83   206-GND   207-DIO19   208-DIO66   209-GND   210-DIO2     211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   228-DIO0     229-GND   230-DIO48   231-DIO16   232-GND   233-RESERVED   234-FPGA_VIO	193-GND	194-DIO52	195-DIO20	196-GND	197-DIO35	198-DIO3	
211-GND   212-DIO50   213-DIO18   214-GND   215-DIO33   216-DIO1     217-DIO82   218-DIO49   219-GND   220-DIO65   221-DIO32   222-GND     223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   228-DIO0     229-GND   230-DIO48   231-DIO16   232-GND   233-RESERVED   234-FPGA_VIO	199-DIO84	200-DIO5	1201-GND	202-DIO67	203-DIO34	204-GND	
217-DI082 218-DI049 219-GND 220-DI065 221-DI032 222-GND   223-DI081 224-GND 225-DI017 226-DI064 227-GND 228-DI00   229-GND 230-DI048 231-DI016 232-GND 233-RESERVED 234-FPGA_VIO	205-DIO83	206-GND	207-DIO19	208-DIO66	209-GND	210-DIO2	
223-DIO81   224-GND   225-DIO17   226-DIO64   227-GND   228-DIO0     229-GND   230-DIO48   231-DIO16   232-GND   233-RESERVED   234-FPGA_VIO	211-GND	212-DIO50	213-DIO18	214-GND	215-DIO33	216-DIO1	
229-GND 230-DIO48 231-DIO16 232-GND 233-RESERVED <b>234-FPGA_VIO</b>	217-DIO82	218-DIO49	219-GND	220-DIO65	221-DIO32	222-GND	
	223-DIO81	224-GND	225-DIO17	226-DIO64	227-GND	228-DIO0	
235-DIO80 236-VBAT 237-GND 238-RESERVED 239-FPGA_CONF 240-FPGA_VIO	229-GND	230-DIO48	231-DIO16	232-GND	233-RESERVED	234-FPGA_VIO	
	235-DIO80	236-VBAT	237-GND	238-RESERVED	239-FPGA_CONF	240-FPGA_VIO	

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