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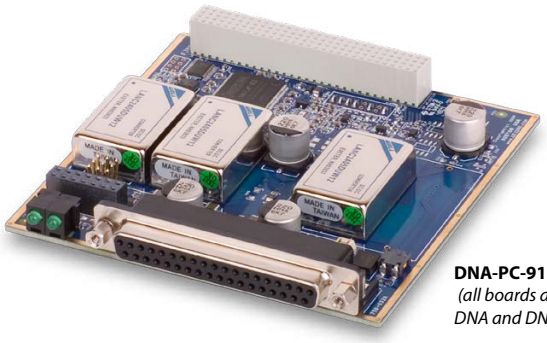
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DNx-PC-910/911/912/913

Power Supply Output Boards

10-Year Availability Guarantee

- DNR-PC-91x series for RACKtangle chassis
- DNA-PC-91x series for CUBE chassis
- Isolated DC/DC converters
- Overload protection
- Overtemperature shutdown
- Software-controlled On/Off switch
- Readback of input voltage and current



DNA-PC-911 shown
(all boards available in both DNA and DNR configurations)

General Description:

The DNA-PC-91x and DNR-PC-91x series provide external power to various sensors and signal conditioning when required by your application. The 91x series may also be used to provide power to the various DNx series I/O boards requiring external power. The DNA version is designed for use in UEI's "Cube" chassis while the DNR series is for use in the RACKtangle chassis form factors. The DNx-PC-91x series is fully backward compatible with the DNx-PC-90x series boards.

The DNx-PC-910, 911, 912 and 913 are designed to provide output voltages of ±10 VDC, ±15 VDC, +24 VDC and ±45 VDC respectively. Input power for the boards is provided by the internal Cube or RACKtangle by default, but an external power supply* may be used to power the units. The units are designed to automatically detect the presence of an external supply and use power from it when available.

Outputs may be turned on and off under software control (default is On). The boards provide a read-back capability of the input voltage allowing the application to ensure acceptable input voltage levels.

All connections are through a 37-pin D female connetor. The pinout of this connector is identical to that of the earlier DNA-PC-90x series with the exception that pins designated as "NC" on the 90x series are now used as the connections to external power when used.

The DNx-PC-91x series includes software drivers supporting all popular operating systems including: Windows, Linux, QNX, VXWorks, RTX, and most other popular Real-Time Operating Systems. Windows users may take advantage of the powerful UEIDAQ Framework which provides a simple and complete software interface to all popular Windows programming language and data acquisition and control applications (e.g. LabVIEW, MATLAB).

Technical Specifications: (all version unless otherwise noted)

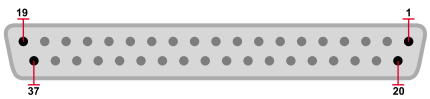
Input voltage:	Uses the same 9 - 36V DC as chassis in which it is installed
Output voltage: DNx-PC-910 DNx-PC-911 DNx-PC-912 DNx-PC-913	(call for info on other voltages) ±10 V DC ±3% ±15 V DC ±3% +24 V DC ±3% ±45 V DC ±3%
Output current:* DNx-PC-910 DNx-PC-911 DNx-PC-912 DNx-PC-913	(derated 1.2% per °C above 40 °C) 1.5 A 1.2 A 1.6 A 0.4 A
Output ripple voltage	<100 mV
Output enable/disable	software controlled. Default condition is ON
Input Selection*	Power provided by internal bus or external connection. Default source is internal.
Input protection	5 A slow-blow fuse
Output protection	Short cirtuit protected, unlimited duration
Short circuit output current	150 % of I_{max}
Output Isolation	350 Vrms, min
Input voltage readback acc.	±1%
Temp measurment acc.	±2 °C
Power supply efficiency	>75% at all currents
Power consumption	0.8W (without load)
Operating temp. range	-40°C to +85°C (output current derated 1.2% per °C above 40 °C)
Operating humidity	95%, non-condensing
MTBF (Hours)	150,000

* When the total power drawn from all DNx-PC-91x series boards in a single chassis exceeds 40 watts, the use of external power is recommended.

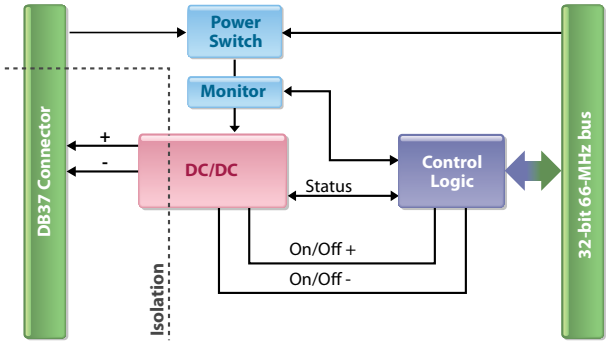
Pinout Diagrams:

DB-37 (female)
37-pin connector:

DNx-PC-910				DNx-PC-911				DNx-PC-912				DNx-PC-913			
Ext PWR Ret	37	19	Ext PWR Ret	Ext PWR Ret	37	19	Ext PWR Ret	Ext PWR Ret	37	19	Ext PWR Ret	Ext PWR Ret	37	19	Ext PWR Ret
DGND	36	18	-10V	DGND	36	18	-15V	DGND	36	18	DGND	DGND	36	18	-45V
DGND	35	17	-10V	DGND	35	17	-15V	DGND	35	17	DGND	DGND	35	17	-45V
DGND	34	16	-10V	DGND	34	16	-15V	DGND	34	16	DGND	DGND	34	16	-45V
DGND	33	15	-10V	DGND	33	15	-15V	DGND	33	15	DGND	DGND	33	15	-45V
DGND	32	14	-10V	DGND	32	14	-15V	DGND	32	14	DGND	DGND	32	14	-45V
DGND	31	13	-10V	DGND	31	13	-15V	DGND	31	13	DGND	DGND	31	13	-45V
DGND	30	12	-10V	DGND	30	12	-15V	DGND	30	12	DGND	DGND	30	12	-45V
DGND	29	11	N/C	DGND	29	11	N/C	DGND	29	11	N/C	DGND	29	11	N/C
DGND	28	10	N/C	DGND	28	10	N/C	DGND	28	10	N/C	DGND	28	10	N/C
DGND	27	9	N/C	DGND	27	9	N/C	DGND	27	9	N/C	DGND	27	9	N/C
DGND	26	8	+10V	DGND	26	8	+15V	DGND	26	8	+24V	DGND	26	8	+45V
DGND	25	7	+10V	DGND	25	7	+15V	DGND	25	7	+24V	DGND	25	7	+45V
DGND	24	6	+10V	DGND	24	6	+15V	DGND	24	6	+24V	DGND	24	6	+45V
DGND	23	5	+10V	DGND	23	5	+15V	DGND	23	5	+24V	DGND	23	5	+45V
DGND	22	4	+10V	DGND	22	4	+15V	DGND	22	4	+24V	DGND	22	4	+45V
DGND	21	3	+10V	DGND	21	3	+15V	DGND	21	3	+24V	DGND	21	3	+45V
Ext PWR+	20	2	+10V	Ext PWR+	20	2	+15V	Ext PWR+	20	2	+24V	Ext PWR+	20	2	+45V
		1	Ext PWR+			1	Ext PWR+			1	Ext PWR+			1	Ext PWR+



Block Diagram:



Connections:

Cable Required	Screw Terminal Panel	Description
DNA-CBL-37 or -37S	DNA-STP-37	37-pin "D" connector to screw terminals.

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