

# Datenblatt

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## General Description (continued):

operating systems. The UEIDAQ Framework included with the rack provides a simple and universal API and supports all common programming languages. The rack is also fully supported by an extensive array of application packages including LabVIEW, MATLAB, DASyLab and more.

The DNR-12 rack offers a wide variety of mounting options. The standard rack is provided with rubber feet which make the DNR-12 ideal for desk or table top applications. A bracket kit allows the cubes to be mounted to a wall or other flat surface or in any standard 19" rack (3U height).

## Technical Specifications:

| Standard Interfaces                    |  |
|--|--|
| To Host Computer                       | Two independent 1000Base-T Gigabit Ethernet ports (100/10Base-T compatible)  |
| Distance from host                     | 100 meters, max  |
| Other Interfaces                       | One USB 2.0 controller port, One USB 2.0 slave port.   |
| Config/General                         | RS-232, 9-pin "D"  |
| Sync                                   | Custom cable to sync multiple racks  |
| I/O Slots Available                    |  |
| DNR-12-1G                              | 12 slots   |
| Data transfer and communications rates |  |
| Ethernet data transfer rate            | 20 megabytes per second  |
| Analog data transfer rate              | up to 6 megasample per sec (16-bit samples)  |
| DMAP I/O mode                          | update 1000 I/O channels (analog and/or digital) in less than 1 millisecond, guaranteed  |
| Processor                              |  |
| CPU                                    | Freescale 8347, 400 MHz, 32-bit  |
| Memory                                 | 128 MB (not including on-board Flash)  |
| Status LEDs                            | Power supplies within spec, One second system heart-beat, Attention, Read/Write, Power, Communications Active                      |
| Environmental                          |  |
| Temp (operating)                       | Tested to -40 °C to 70 °C  |
| Temp (storage)                         | -40 °C to 85 °C  |
| Humidity                               | 0 to 95%, non-condensing   |
| Vibration                              |  |
| (IEC 60068-2-64)                       | 10-500 Hz, 3 g (rms), Broad-band random  |
| (IEC 60068-2-6)                        | 10-500 Hz, 3 g, Sinusoidal   |
| Shock                                  |  |
| (IEC 60068-2-27)                       | 50 g, 3 ms half sine, 18 shocks at 6 orientations;<br>50 g, 11 ms half sine, 18 shocks at 6 orientations                           |
| MTBF                                   | 130,000 hours  |
| Physical Dimensions                    |  |
| DNR-12 series                          | 5.25" x 6.2" x 17.5" (3U in a 19" rack)  |
| Power Requirements                     |  |
| Voltage                                | 9 - 36 VDC (AC adaptor included)   |
| Fuse                                   | Internal 10 A  |
| Power Dissipation                      | 13 W at 24 VDC (not including I/O boards)  |
| Power Monitoring                       |  |
| I/O board power                        | All internal power supplies monitored to ±1% accuracy. All PS voltages may be read by host. LED annunciators indicate out of range |
| Input current                          | Monitored by host, LED indicates overcurrent   |
| Input voltage                          | Monitored by host, LED indicates out of range  |

## DNR Series Advantages:

### Easy to Configure and Deploy

- Over 30 different I/O boards available
- Over 5 quadrillion possible configurations
- Gigabit Ethernet based (100/10Base-T compatible)
- Bracket kit for mounting to wall or in 19" racks
- Industrial quality rubber feet for solid table-top mounting
- Passive backplane ensures extremely low MTTR
- Standard "Off-the-shelf" products and delivery

### True Real-time Performance

- 1 msec updates guaranteed with 1000 I/O
- Up to 6 million samples per second
- Use QNX, RTX, RT Linux, RTAI Linux, LabVIEW RT

### Flexible Connectivity

- 1000Base-T with Cat-5 cable
- Supports WIFI / GSM / Cell networks
- Built-in USB 2.0 slave and controller ports

### Compact Size:

- 5.25" x 6.2" x 17.5"
- 300 analog inputs per rack
- 384 analog outputs per rack
- 576 digital I/O bits per rack
- 96 counter/quadrature channels per rack
- 144 ARINC-429 channels per rack
- 48 RS-232/422/485 ports per rack

### Low Power:

- Less than 13 watts per typical rack (not including I/O)
- AC, 9-36 VDC or battery powered.

### Stand alone and Data Logger Modes

- Upgradeable to UEILogger 1200R
- Upgradeable to UEIPAC 1200R
- Upgradeable to UEIModbus 1200R

### Rugged and Industrial:

- Solid Aluminum construction
- 130,000 hour MTBF
- Operation tested from -40°C to +70°C
- Vibration tested to 3 g, (operating)
- Shock tested to 50 g (operating)
- All I/O isolated from rack and host PC.

### Outstanding Software Support

- Windows, Linux, RT Linux, Windows RT, RTX VXworks and QNX operating systems
- VB, VB .NET, C, C#, C++, J#
- MATLAB, LabVIEW, DASyLab, OPC, ActiveX support



