

# DW6030 Serial Appliance

Bringing serial data support to IP networks

**HUGHES**  
NETWORK SYSTEMS

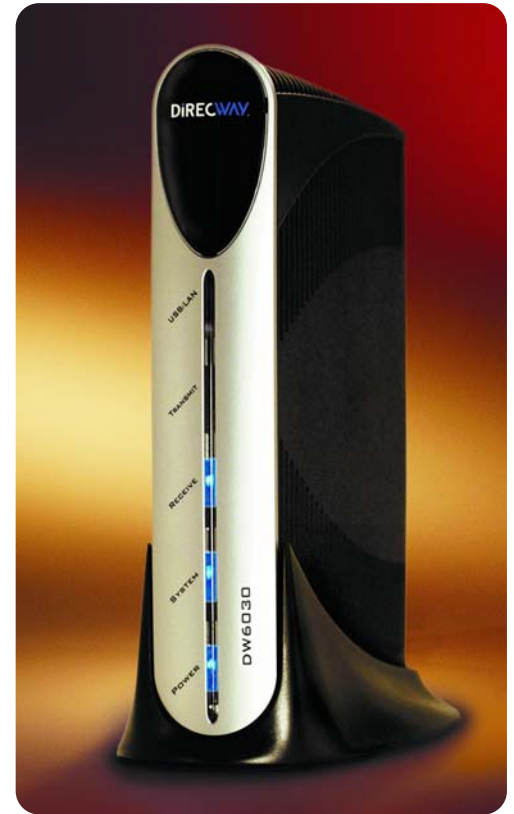
**DIRECWAY**

DIRECWAY® is a family of broadband satellite solutions brought to you by Hughes Network Systems, Inc. (HNS), the global market leader in providing satellite products and services to enterprises and consumers. DIRECWAY satisfies the increasing demand for bandwidth by offering a variety of high-speed multimedia hardware, software, and service solutions.

The DW6030 Serial Appliance is a cost-effective solution for enabling serial data connectivity together with high-speed broadband IP access in a DIRECWAY satellite network. Designed as a simple add-on to the DIRECWAY family of terminals, the DW6030 Serial Appliance supports up to four serial ports with a variety of applications and data protocols. By enabling the simultaneous support of serial data and IP Ethernet over the DIRECWAY system, the DW6030 is the perfect solution for integrating legacy serial devices within an IP network—including devices such as credit card scanners, SCADA terminals, lottery terminals or gas station pump controllers. With the DW6030 Serial Appliance, the DIRECWAY system can supply serial data and broadband IP to anywhere in the world and provide highly efficient, two-way satellite service for enterprises of any size.

To provide good performance over the satellite link, the serial protocols over the four RS-232 interfaces are "spoofed" (terminated locally) by the DW6030 Serial Appliance. Supported protocols include SDLC, X.25, and a variety of asynchronous protocols for credit card devices and environmental controllers. And with Automatic Dial Backup, the DW6030 Serial Appliance has the ability to provide virtual 100% availability.

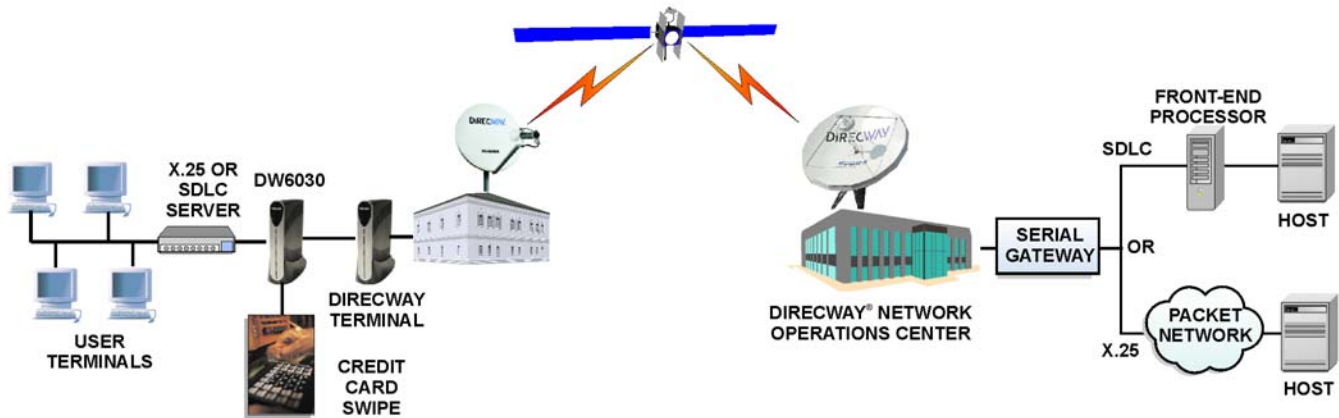
In conjunction with a DW6030 serial appliance, the DW satellite terminal delivers broadband access to multiple users via IP Ethernet while simultaneously supporting serial data traffic. The DW terminal supports many IP applications including content delivery, multicasting, music distribution, distance learning and training, digital media streaming, file transfer, Internet, and VPN/intranet access. The DW terminal receives and transmits data through the system's antenna and outdoor electronics, over the satellite, and via the DIRECWAY Network Operations Center (NOC). TCP connections can be initiated to or from hosts at the remote locations. Users' intranet communications are secure and isolated from other enterprise



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intranets and from remotes accessing the "public" Internet operating on the same network.

The DIRECWAY system complies with the industry's DVB-S standard, and therefore, it is very easy to customize a wide range of outroute (terminal receive rate) data rates by choosing different symbol and FEC coding rates. This receive rate is scalable up to 48 Mbps while the return channel (terminal transmit rate) can be 128 or 256 kbps. DIRECWAY terminals provide an integrated broadband LAN solution to Windows, UNIX, MAC, and other platforms running IP over Ethernet. The DIRECWAY terminal passes IP data packets to and from any IP device on the LAN and has the functionality of a typical IP router.



### Key System Features

- Provides easy migration solution for converting serial legacy network to IP
- Supports up to four serial RS-232 connections simultaneously with unicast and multicast IP traffic on the DIRECWAY terminal
- Supports a variety of SDLC and X.25 configurations in "spoofed" mode for satellite efficiency
- Supports a variety of asynchronous protocols for devices such as SCADA, credit card, lottery, and POS terminals
- Supports DIRECWAY Automatic Dial Backup for very high availability requirements
- Convenient field upgradeable add-on to already deployed DW satellite terminals
- Remote terminal management via the HNS Vision® Network Management System and SNMP agent
- Universal power supply supports international voltage ranges and frequencies
- User friendly LED indicating terminal operational status

### Technical Specifications

#### Configuration, Status, and Commissioning

- Uses HNS Vision Network Management System
- SNMP management of appliance
- Satellite download of configuration and software

#### Serial Protocols

Veriphone 3200 (VISA) - IP  
 Veriphone 3300 (VISA) - IP  
 SDLC (PU2/PU2.1) - SDLC (PU4)  
 SDLC (PU2/PU2.1) - LLC  
 XPAD - X.25  
 X.25 - X.25  
 DSPAD - X.25

#### Physical Interfaces

- Two RS-232 synchronous/asynchronous serial ports (DB-25F)
- Two RS 232 asynchronous serial ports (DB-9F)

#### Data Rate Specifications

Synchronous 1,200–64,000 (bps)  
 Asynchronous 1,200–56,000 (bps)

#### Input Power

100–240 V ~ 1A max,  
 50–60 Hz  
 15 W typical

#### Mechanical

Shipping Weight: 5.3 lbs  
 2.4 kg  
 Unit Weight: 2.2 lbs  
 1 kg  
 Dimensions: 1.8 W x 9.5 H x 10.5 D (inches)  
 4.6 W x 24.1 H x 26.7 (cm)

#### Environmental

Operating Temperature: 5–40 °C  
 41–104 °F