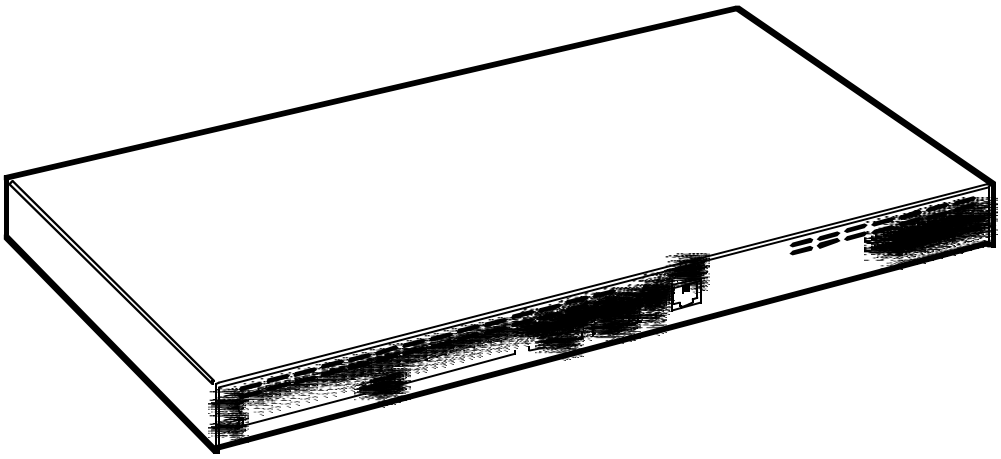
BLACK BOX®
NETWORK SERVICES

Remote Access Server with Integrated Modems

Compact, software-upgradeable platform for dialup access to Internet and intranet services.



Key Features

- *Efficient and consistent performance.*
- *Software-upgradeable migration path.*
- *Easy to manage in real time.*
- *Low power consumption and heat dissipation.*
- *DSP chips are dynamically allocated.*
- *Distributed data processing is performed inside each DSP.*

Traffic on the Internet is doubling every three months. Much of this traffic is being generated by small-to-medium sized companies, as well as a growing number of Internet Service Providers (ISPs).

Everything you need to set up as an Internet or Intranet service provider comes in a single box. You can use the Internet as a vital channel for communicating with customers, employees, and business partners.

The Remote Access Server with Integrated Modems provides a compact, software-upgradeable platform that allows dialup access to Internet and intranet services, and can operate either as a standalone or networked device.

The Remote Access Server simultaneously consolidates analogue modem and digital ISDN remote access connections (over PSTN digital trunks) using a completely digital approach. One or two T1/E1/PRI ports provide PSTN and/or PABX connectivity to terminate up to 30 analogue modem and digital ISDN calls within a single chassis. The Server incorporates channel bank, terminal server, router, and modem functionality in a self-contained, compact package.

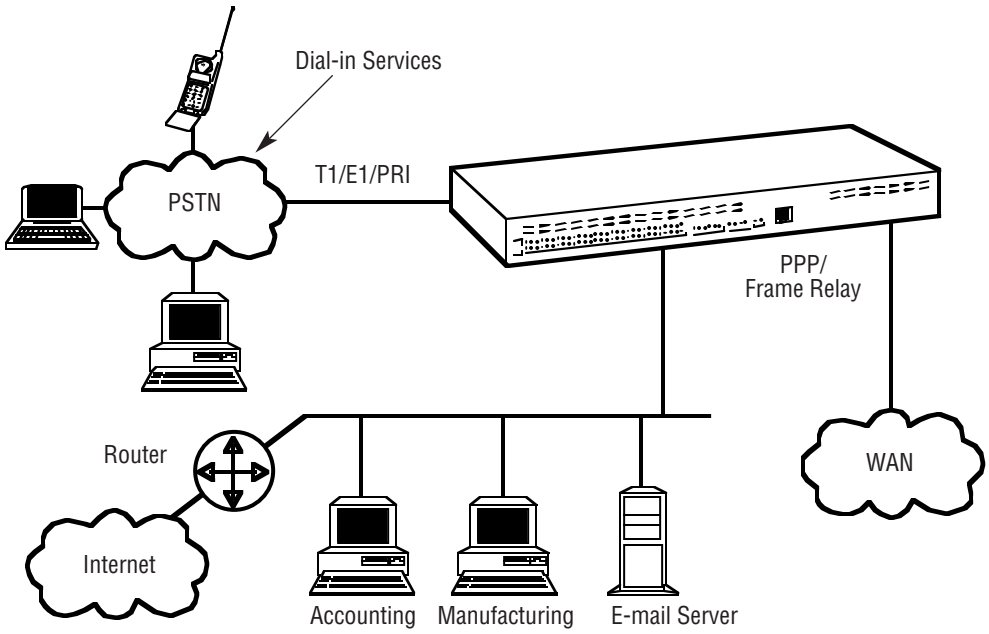
The Server is ideal for providing dialup access for digital (ISDN BRI) and analogue (V.34+, V.90) calls, local and central-site user authentication, call accounting and statistics, drop-and-insert functionality, and IP routing.

Typical applications include ISP access, ISP expansion, corporate network access, dial access for wide-area-networks, and voice and data access.

Typical Application

Give users access to the World-Wide Web, e-mail, and your corporate LAN via a single box.

The corporate network is just a phone call away with e-mail, LAN, and Web access via a single box.



Technically Speaking

RADIUS Authentication

RADIUS is a client-server system developed to manage the flexible requirements of remote dial-in users. This protocol is specified under RFC 2138 for authentication and RFC 2139 for accounting. RADIUS servers are available as freeware for most computer platforms, and provide an excellent method for managing user dial-in security.

Other types of authentication you might use include:

- staticUsers, which uses the Server's internal database only to authenticate.
- static Then Radius, which checks the internal database first; if no match is found, then uses RADIUS to authenticate and provision services.
- No Validation, which lets un-authenticated calls into the Remote Access Server, and onto your LAN, using the default service.

Specifications

Temperature—
Operating: 0 to 40° C

Humidity—5 to 90% noncondensing

Indicators — Front-panel LEDs for T1/E1 channel status, T1/E1 line status and errors, Ethernet status and errors

Connectors — Front panel: (1) RJ-45 connector for control port;
Rear panel: (2) T1/E1/PRI network interface connections; (1) DB25 female and (1) RJ-45 802.3 Ethernet connection; (1) IEC-320 shrouded male power connector

Power — Internal universal input 90–260 VAC, 50/60/400 Hz, 35 watts

Size — 4.4H x 43.2W x 20.3D cm (1.75"H x 17"W x 8"D)

Weight — 2 kg

The complete package:

- Remote Access Server with Integrated Modems
- User manual

Additional equipment you might need:

- Category 5 cable

Ordering Information

PRODUCT NAME	PRODUCT CODE
Remote Access Server with Integrated V.90 Modems	
12 DSPs (T1 or E1)	LRA2800A-12
30 DSPs (E1 Only)	LRA2800A-30
Bundled (A Pair of Stacked Remote Access Servers with Integrated Modems)	
60 DSPs	LRA2800A-60

Remember to order cables:

Category 5 Stranded Color Patch Cable, 4-Pair, Beige, 3.0-m	EVMSL05-0010