

BANDIT II C2C Overview

The BANDIT II C2C is a streamlined desktop model in the BANDIT product family, providing both IPsec virtual private networks (VPNs) and support for legacy devices. The BANDIT II C2C is available for business and industrial settings.

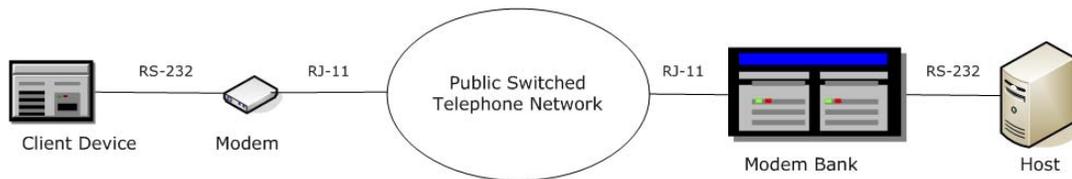
1.1 Function

The BANDIT II C2C provides business IP solutions that support process control, utility serial RTUs, elevators, meters, and other legacy systems that depend on analog lines and modems. Encore Networks' BANDIT products permit continuing use of analog devices. The legacy equipment remains in place, with no change in function or operation.

1.1.1 Legacy Equipment

Figure 1-1 illustrates a legacy connection in a call to a host over the Public Switched Telephone Network (PSTN). The client device connects to an external modem. The modem connects the client device to the PSTN. On the remote side, the PSTN connects to a modem bank to deliver the client device's information to its host.¹ Businesses must consider the cost for continued PSTN support of legacy equipment.

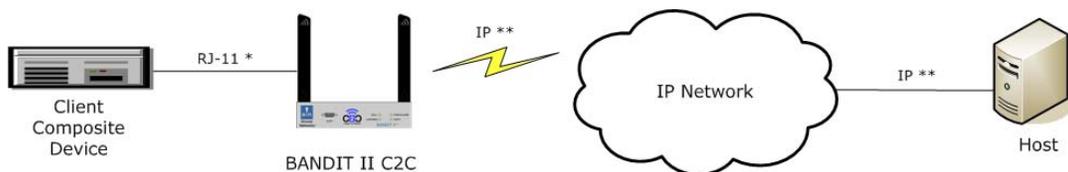
Figure 1-1. Legacy Analog Connection over Public Switched Telephone Network



1.1.2 Business Solution

Figure 1-2 illustrates Encore's IP solution, sending a call to the same host, carried over an IP network. The client device is a composite device with a hardwired built-in modem.

Figure 1-2. Legacy Analog Connection over IP Network



1. Routes for PSTN connections are specified and must be configured before use. They cannot be changed without reconfiguration. If a route is unavailable, the call must travel over a previously configured back-up route.

The client device's modem connects to the BANDIT II C2C's modem port. The BANDIT II C2C handles the call in place of the PSTN, encapsulates the legacy protocol inside IP packets, and sends the call over the IP network to deliver the client device's information to its remote host.²

1.2 Network Support

The BANDIT II C2C supports IP over ground-based networks and satellite networks. The BANDIT II C2C offers enhanced performance features (such as SLE for satellite networks) and supports up to 30 simultaneous VPN tunnels. The BANDIT II C2C's VPNs support DES, 3DES, and AES.

In addition to its support of VPNs and its support of legacy devices, the BANDIT II C2C can handle all variants of the Supervisory Control and Data Acquisition (SCADA) protocol, both bit-oriented and byte-oriented, with strong encryption of all traffic and with complete remote management capabilities.

1.3 System Features and Security Features

The BANDIT II C2C's system features include SNMP alarms and traps, password security, user-friendly interfaces, and alarm reports.

BANDIT II C2C security includes IP authentication, call set-up authentication, unit authentication, user authentication, and optional encryption. Data security utilizes IPsec and IP-based services and applications.

For more information, including compliance information, see the [BANDIT II C2C Hardware Description and Specifications](#).

2. IP routes are not specified; IP routing is dynamic. Each IP packet knows its destination and takes the best available route to the destination. The best route can change according to traffic volume, so one IP packet's route may differ from another IP packet's route. The BANDIT II C2C can send IP packets over a wireless connection or a cabled connection, or both.