



Series 2000

High Speed Wireline Security Modems for Commercial and Industrial Applications

Remote access modems offer significant cost savings and reduce network downtime by eliminating the need to dispatch personnel to remote sites to reconfigure alarm and control systems, phone switches, diagnostic ports, remote access servers, and supervisory channels. However, these benefits come with the risk that unauthorized access to remote facilities could disrupt your network and cripple your business operations.

With the Ctek Series 2000 family of remote access modems, it is no longer necessary to accept the security risk associated with unprotected remote access installations.



Ctek's Series 2000 provides the full range of advanced modem features found in our Series 1000 family, combined with a comprehensive set of security and access control features. Series 2000 implements the full range of security features defined in the Bellcore Local Access and Transport Area LATA Switching Systems Generic Requirements (**LSSGR**) in a cost effective industrial package.

Advanced Security Features

If you are managing highly secure remote access points, Series 2000 modems offer the most advanced security features available. Now you can access remote configuration, diagnostic, console ports, and supervisory and control channels over secure connections. With the Series 2000, password protection, the cornerstone of most security strategies, can be augmented with a wide range of features and options. These features can be used to implement the multi-faceted type of access control recommended by most security experts. In addition, a comprehensive audit trail provides a historical view of access attempts, allowing your security personnel to identify "at risk" facilities.

A Robust Security Strategy

UserID/Password - Capable of storing as many as 400 passwords, the Series 2000 may be configured to operate either with or without a password prompt.

Retry limits – Designed to foil the conventional trial-and-error approach to unauthorized access.

Caller ID Verification - The Caller ID feature requires that a caller's telephone number be present in the modem's database. Non-registered numbers will not receive modem supervision.

Closed User Groups - Built-in challenge/response algorithms may be enabled to create closed user groups of Ctek security modems.

Automatic Call Back – Series 2000 can be configured to initiate a call back to a users modem, insuring that access is originating from known terminals or locations.

Password Aging – Insures that passwords are changed on a specified schedule.

Enforced Syntax – Implements password policies with regards to alpha, numeric, and control type characters.

Audit Trail with Precision Time Keeping - With the audit trail facilities of Series 2000, there is never a question about who has gained access or who has tried to gain access to your installation. All attempts to access a Series 2000 device are stored in a nonvolatile audit trail along with the date and time.

Specific Customer Benefits

Secure Remote Access

Prevent Malicious and Opportunistic Attacks

Reduce Insurance Costs

Meet Security Audit Requirements

Audit Trail Supports Prosecution or Litigation

Based on Proven Series 1000 Platform

Remote Configuration

5 Year Limited Warranty

Remote Configuration - The remote configuration facilities of Series 2000 modems allow you to remotely maintain passwords, review the audit trail or modify any parameter of the device. Additional configuration commands allow you to select DTE bit rate, character length and parity. Remote configuration access may be restricted to specific passwords.



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Device Management Software - This optional software automates audit trail data collection and simplifies password management for large, distributed networks.

Modem Features Overview

- Standard 2-wire dial-up
- AT Command Set
- Standard Error Correction and compression
- RS-232 Asynchronous DTE Support
- Remote Configuration
- Multi-Port Expansion Available

See Series 1000 Data Sheet for
A Complete Description of
Modem Capabilities

Data compatibility - V.34, V.32bis, V.32, V.22bis, V.22, V.23, V.21, Bell 212A, Bell 103J.

DTE Interface – Physical - DB9 connector

Electrical - RS-232F (V.24). Asynchronous: Autobaud or selectable formats and rates to 115.2Kbps with V.34 or 57.6Kbps with V.32bis.

Auto Dial Modes - Standard AT compatible dial commands or DTR dial of stored number.

Answer Modes - Standard auto answer or manual answer under DTE control.

Error correction - V.42 and MNP 2-4 error correction

Data Compression - V.42bis and MNP5 data compression.

Configuration Control – Standard AT commands for both local and remote configuration.

Diagnostics - V.54 through AT commands.

Network Interfaces - 2-wire, pulse or DTMF dial.
XMT level: -12dBm,
RCV sensitivity: -43dBm.

Power: - Stand-alone single-port

Standard units automatically adjust to 9-12 VDC unregulated, or regulated 5VDC \pm 5% (ripple < 100mv). Optional 48VDC supply.

115VAC -> 9VDC Wall Transformer included with all standalone configurations

Rack Mount - Standard S1900 rack automatically adjusts to 85-265VAC, 27-440Hz. Optional 48VDC supply.

Environmental - Operating temperature range: -20C to 70C. Humidity: 90% non-condensing.

Approvals - FCC Part 68 & Part 15, Class A. Optional: International approvals available.

Physical:

Single-port units - Dimensions: 5.30"L x 5.05"W x 1.53"H. Weight: 12oz.

Rack mount - Fits S1900 rack.
4.73"L x 4.60"W x .80"H. Weight: 9oz.

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