



Series 1000

High Speed Wireline Modems for Commercial and Industrial Applications

For industrial networks, data centers and remote management applications that require high-speed connections, the Ctek Series 1000 family of wireline data modems incorporate the latest advances in modem design to deliver efficient and reliable performance that is packaged for industrial and commercial applications. Series 1000 modems offer superior price/performance and a robust feature set that will meet or exceed your communications needs.

UNIVERSAL WIRELINE CONFIGURATION

Complex network configurations often incorporate a variety of data set interfaces, each requiring separate modems types. The result has been a requirement to stock seldom used parts, often in significant quantity. Now, the Ctek Series 1000 offers an all-in-one solution for a wide range of applications. Packaged in either a polymer or metal case, and backed by a five-year warranty, the Series 1000 is capable of operating in either 2 or 4 wire configurations on dial-up, leased line, or short haul networks. Protocol support includes V.34, V.32, V.32bis as well as Bell 212A and 103J.

With its standard power saving standby mode and instantaneous (zero character loss) recovery, the Series 1000 makes the perfect choice for low power and battery-operated applications. Because one model meets all of your application requirements the Series 1000 reduces stocking and spares costs while providing additional project flexibility

COMMERCIAL/INDUSTRIAL STANDARDS

Series 1000 modems have been developed to meet the stringent environmental and performance demands of the



commercial and industrial applications. Every component, switch and connector is selected for its ability to withstand industrial environmental demands. Series 1000 models are housed in metal enclosures and are built to meet the most stringent criteria. Temperature ratings, for example, range from minus 20C to plus 70C. Versatile power supply

options will satisfy any industrial application. Available in commercial and industrial stand-alone, or rack mount configurations.

Specific Customer Benefits

- One Model Feature Set – Reduce Inventory
- V.34, V.32 and many other protocols
- Ideal for battery/solar operation
- Flexible Power Requirements
- Latest chip set – long term availability
- Standalone, Rack, or Wall Mount
- Remote AT Configuration
- 5 Year Limited Warranty

Features

- All In One Design – One Model To Support
 - ❖ 2-wire and 4-wire Operation
 - ❖ Lease Line, Dial-up, Short Haul
 - ❖ V.34, V.32, V.32bis
- Standard Error Correction and compression
- AT Command Set
- Polymer or Metal Case, or Rack Mount
- 7 – 14VDC (power pack included) or 48VDC



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Specifications

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 Interface:

Dial-up: 2-Wire Pulse or DTMF XMT level: 12dBm RCV sensitivity: -43dBm

2-wire and 4-Wire Leased and short-haul
XMT level: Adjustable RCV sensitivity: -43dBm

Power

Stand-alone unit

Standard units automatically adjust to 7-14VDC unregulated, or regulated 5VDC \pm 5% (ripple < 100mv).
Optional 48VDC supply.

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

Power Consumption

Operational Mode – 95ma @12VDC

Standby Mode – 38ma @12VDC

Standby to Operational Transition Time – Nearly instantaneous – will detect first character or ring.

Power (cont.)

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

Environmental

Commercial Wireline

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

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

Physical

Commercial Stand alone

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.

Designed and manufactured in the USA by:

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Backed by a 5 year limited warranty

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