

Highlights

- Supports modulations up to V.34bis, Bell 202T and V.29
- Modem speed detection and negotiation up to 33.6Kbps, Terminal speeds up to 115.2Kbps
- Dial-up or 2/4-Wire leased line with automatic unattended dial backup
- V.42/42bis error correction and data compression
- Security with multi-level password protection plus auto dial backup
- Choice of DTE interfaces RS-232 or V.35
- Choice of AC or DC power supplies in both standalone and rackmount versions
- Optional LCD display and Alarm Relay
- Compatible with CXR Universal shelves and Management system
- Meets all International standards
- Embedded real-time clock for selective control of Auto Dial Backup
- SNMP management

The **CXR-Anderson Jacobson 2885P Series™** are a complete line of professional grade modems which have been designed to meet the most stringent requirements of networking professionals who need a high degree of reliability and performance. The 2885P Series family is designed to be used for both dial-up and leased line applications with automatic unattended dial back-up.

Three series of modems provide features specific to your requirements. The 2885P-F Series offer full features for Secure Dialup applications and up to V.34bis 2 or 4-Wire leased line applications with automatic dial backup. The 2885P-B Series bring an entirely new approach to migrating out of the Bell 202T connections with the industry first 202T/V.34bis Combination Mode modem on the market. This unit will operate with either a Bell 202T modem or any of the V.22, V.32, V.34 or V.34bis which make it ideally suited for unique applications such as TADIL B (Tactical Digital Information Link [Mil-STD-6013]) with an integral DC-to-DC converter. The 2885P-T Series extends this combination of functions to include 4-wire V.29 modulation to support a comprehensive range of worldwide standards. All 2885P Leased Line models take advantage of automatic and full non-interruptive restoral of the primary leased line with high-speed dial so that critical data traffic sessions are not blocked.

Applications

The 2885P Series offers a wide variety of networking applications for commercial, public or private networks. These include remote access servers, voice messaging systems, alarm reporting systems, telemetry monitoring



systems, point of sales, and more. In its industrial strength version the 2885P Series can be used in SCADA (Supervisory Control And Data Acquisition) monitoring systems in environments such as power plants and petrochemical installations. The 2885P Series offer customizing features, comprehensive flexibility and high reliability making it ideal for mission critical applications where the failure of a single component of the system cannot be tolerated.

Product Description

The 2885P Series family operates in either asynchronous or synchronous data mode over dialup or 2 or 4-Wire leased lines at speed up to 33.6Kbps. It supports all standard speeds and modulation schemes including Group III fax as well as TR29 Class 1 and 2. DTE speeds are available up to 115.2Kbps with automatic rate sensing and full programmability of the control signals to adapt to the DTE characteristics.

In dialup applications, a unique line qualification mechanism assesses the quality of the line before entering the transmission mode and can automatically redial in case of poor line quality. This mechanism avoids having to transmit in a degraded mode and leads to significant money savings in time when there are long transmission sessions.

A number of security features protect against unauthorized access to the host system. Dial backup security (with a 100 number built-in directory), manual as well as automatic password presentation are all standard features. The 2885P Series can store up to ten different configurations and can easily be reconfigured manually or automatically by associating a given profile to a telephone number to be dialed.

For mission critical applications the standalone 2885P Series can be factory equipped with a built-in 48 VDC

Anderson Jacobson 2885P Series

power supply with full protection against shorts and inverse polarities. An optional LCD display is also available for easy configuration in the field especially for synchronous environments.

Easy Configuration & Diagnostics

The 2885P Series is easy to configure and operate with its unique Software Settings Menu. Customer or factory-defined configurations can be selected from the front panel or even on a per call basis for dialup applications. All remote site programming and monitoring functions can also be performed from the central site when the "AMS Rack" is used and equipped with the CFIP management card. Loop tests can be activated when a given channel needs to be troubleshoot and BER Tests initiated to assess the quality of a transmission circuit. On each modem, a live signal quality indicator is also available to monitor the operation of the modem and to be alerted of line degradation. Detailed real-time statistics are also available to monitor traffic and modem usage.

Specifications

INPUT DATA FORMAT

Serial, synchronous or asynchronous

DIALUP LINE

- Transmit level: -10 dBm to -24 dBm
- Receiver sensitivity: -43 dBm
- Fax: V.17, V.29 and V.27 ter
- Connector: RJ-11

LEASED LINE

- Line type: 2 or 4-Wires
- Transmit level: 0 dBm to -24 dBm
- Receiver sensitivity: -33 dBm/43
- Connector: RJ-45

MODEM DATA RATES

- V.34bis: 33.6K, 31.2K
- V.34: 28.8K to 2.4Kbps in 2.4K increments
- V.32bis: 14.4K, 12000 bps
- V.32: 9600, 4800 bps
- V.22bis, V.22, V.23, V.21, BELL 212/103: 2400, 1200, 300 bps
- Bell 202T: 1200
- V.29: 4800/9600

DIAGNOSTIC TEST FEATURES

- Power-up self-test
- Local analog and digital loopback
- Remote digital loopback

CONFIGURATION INTERFACE (Standalone)

- Through DTE interface with extended set of AT commands or V.25bis commands
- LCD display (optional) - 2x16 characters with three associated keys - Menu driven
- Remote configuration through central site or local modem
- By selecting one of the ten stored configurations through front panel push button or on a per call basis for dialup applications

CONFIGURATION INTERFACE FRONT PANEL (Standalone)

- With optional LCD - LEDs for DTR, CD, Data and DSR. Keys for Left, Down and Enter
- Without LCD - LEDs for DTR, DSR, CD, RXD, TXD, and Line Mode

CONFIGURATION INTERFACE RACKMOUNT CARD

- Front panel same as standalone without LCD
- 16 cards per chassis
- Can be mixed in any order with other CXR cards (modems, CSU/DSU, DSL, Fiber and so forth)

MANAGEMENT

- Through universal chassis and CFIP-M/CFIP-S controller card
- Alarm reporting and statistics
- Optional SNMP agent

TERMINAL INTERFACE

- RS-232-D, V.24 (through DB-25 connector)
- V.35 or V.11 (through DB-25 connector and adapter cable)

TERMINAL SPEEDS

- 115.2K, 57.6K, 38.4K, 19.2K, 9.6K, 4.8K, 2.4K, 1.2K, 300 bits per second

DATA FORMAT

- 7 or 8 data bits
- Odd, Even, Mark, Space or No Parity

POWER REQUIREMENTS

- Standalone:
 - 96 to 240 VAC integral
 - 12, 24 or 48 VDC internal
- Universal chassis:
 - 110/230 VAC
 - 24 or 48 VDC
 - Optional redundant power supply with full load sharing

POWER CONSUMPTION

5 watts maximum per card or standalone unit

ENVIRONMENTAL

- Operating Temperature: 32 to 113° F (0 to 45° C)
- Storage Temperature: -4 to 158° F (-20 to 70° C)

RELATIVE HUMIDITY

10 to 90% noncondensing

PHYSICAL (STANDALONE)

- Dimensions [D x W x H]: 11.5 in X 7.5 in X 1.55 in
- Weight: 2.9 lbs.

COMPLIANCE/REGULATORY

This equipment has been designed to comply with the following standards:

- FCC Part-15, Class B
- FCC Part-68
- UL/EN-60950

Ordering Configurations

2885P-FTVU
2885P-FPVU
2885P-FPCU
2885P-FPRU

2885P-BDMU
2885P-BDNU
2885P-BPRU
2885P-BPVU

2885P-SDMU
2885P-SDNU

2885P-TDMU

F = Single Mode; V.34bis and FAX
B = Dual Mode; 202T/V.34bis
S = SCADA, Single Mode; V.34bis
T = Triple Mode; 202T/V.29/V.34bis

D = LCD Panel (Leased line w/ Dial Back Up)
P = LED Panel (Leased line w/ Dial Back Up)
T = PSTN Only, LED Panel

C = Plastic Desktop, 48 VDC
M = Metal Desktop case, 110/220 VAC
N = Metal Desktop case, 48 VDC
R = Rackmount
V = Plastic Desktop, external 110/220 VAC power adapter (supplied)

U = North American

OPTIONS

OPT2885-TROP High Humidity Protection
OPT2885-TEMP -20° to 60° F (-28.9° to 15.6° C)

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