

Highlights

- Async Operation to 115.2Kbps
- Fax (Group III, Class 1 & 2)
- Expanded "AT" Commands
- V.42/V.42bis with Selective Reject, MNP4/5
- 2/4-W Leased Line or 2-W Dial Up Operation
- Good Connection Feature Redials to Achieve a Quality Connection
- 100 Number Storage/10 Stored Configurations
- Remote Configuration Monitor/Control
- Sync/Async Operation
- V.54 Test Diagnostics
- AT & V.25bis Autodialers
- Unattended Automatic Dial Back-Up
- Half Duplex Simulation (V.13)
- Automatic Fallback/Fallforward
- Loss of Carrier Redial Feature
- Disconnect Cause Codes
- On-screen AT Command Profile Display
- Flash Memory Design

Applications

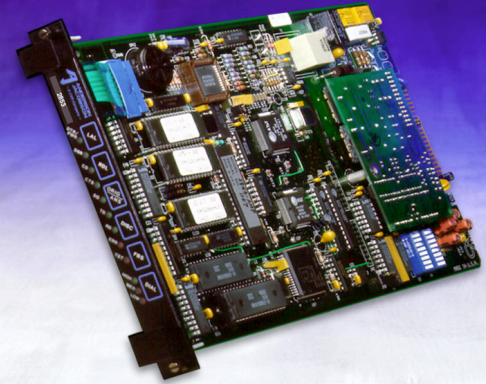
UADBU™ (Unattended Automatic Dial Back Up)

For installations which operate under non-standard protocols, the modems can be configured to meet the user's requirements and then stored in non-volatile memory. Twelve pages of Configuration profile Help display screens that show more than just a plain command setting (See screen format example below).

User Configuration 1		Page 3
FORMAT / DATA RATE		
AUTO BAUD	ON	@A1
CONSTANT DTE	ON	@C1
* DTE SPEED	115200	@D13
MODEM SPEED	33600	@M17
DATA BITS	8	@B8
PARITY	NONE	@P0
STOP BITS	1	@S1
ASYNC/SYNC	ASYNC	&M0
SYNC CLOCK	INTERNAL	&X0

Type <Enter> to continue

* Parameter changed from default setting)



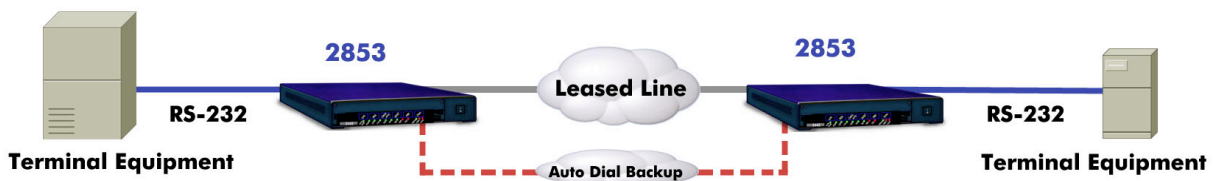
The **CXR-Anderson Jacobson 2853 Series™** V.34bis High Speed Modems provide full duplex communication of up to 33.6Kbps over 2/4-Wire Leased Line or 2-Wire dial up lines. For increased throughput and reliability, AJ modems offer features such as Selective Reject, Autodial, Auto Fallback/Fallforward, Automatic Dial Back Up, Error Correction/Data Compression and Good Connection Redial. As per ITU specifications, V.34bis includes sub-rates of 31,200, 28,800, 26,400, 24,000 and 21,600 bps. AJ V.34bis Modems will operate with other similar modems through Automode. Automode connects the modems at the highest communication speed available to both modems.

Multiple Security Features

- Callback, Answerback & Pass Through
- Manual Code & Password Access
- Operator & Supervisor Password

Standard Flash Memory

AJ Security Modems are factory equipped with the Flash Memory feature for rackmount and standalone models. Flash Memory allows resident firmware, the "brains" of the modems, to be changed through a software program rather than a hardware chip replacement.



Anderson Jacobson 2853 Series

Error Correction/Data Compression

Asynchronous data speeds of up to 115.2Kbps can be achieved utilizing the industry standard MNP4/V.42 error correction and MNP5/V.42bis data compression. Selective Reject allows for greater throughput by reducing the amount of unnecessary retransmissions.

Unattended Automatic Dial Back-Up

If the leased line fails, UADBU, an AJ standard, automatically re-establishes communication over the switched network by dialing a pre-stored phone number. With intelligent loopback, AJ Security Modems also monitor the leased line signal quality in order to restore automatically when the failure clears.

Security

Protect your stored configurations and passwords. A dual level Security design prevents unauthorized access and changes to stored profiles, stored passwords, and stored callback phone numbers. Additional protection is provided for access to the "AT" dialer and remote configuration changes.

Fax Capability

Security Modems are Group III compatible, the most universal fax standard in use today. Operating in either Class 1 or 2 mode makes the fax modem compatible with virtually every off-the-shelf fax software package available.

Autodialing/V.25 Dialer

Based on an extended "AT" command set, the autodialer can dial any of the numbers stored in memory. Alternate numbers can be dialed if the original call is not successful. The integral V.25bis dialer typically saves two valuable communications ports per node for operation with systems such as the IBM AS/400.

Configuration Options

AJ Modems can be configured locally through the serial interface using "AT" commands or through the modem front panel. Do you need to update or change the configuration profile of a remote modem? Just dial the modem, issue a special command and configure the modem as if it were in your office. Rapid changes can be made with Downline Loading under computer control. Configuration profiles can be changed with a single command.

Specifications

INPUT DATA FORMAT

Serial, synchronous or asynchronous

DATA RATES

- 33.6K, 31.2K – V.34bis
- 28.8K, 26.4K, 24K, 21.6K bps – V.34
- 19.2K, 16.8K bps – V.32 Terbo
- 14.4K, 12000 bps – V.32bis
- 9600, 4800 bps – V.32
- 2400, 1200, 300 bps – V.22bis, V.22, V.23, V.21, BELL 212/103

DIAGNOSTIC TEST FEATURES

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

TRANSMIT LEVEL

- Dial network: -10.0 dBm ±1.0 dB permissive mode (RJ-11 jack)
- Leased Line: -10 to -16 dBm in soft selectable 2 dB steps

OPERATING MODE

Full duplex on standard 2-Wire dial-up lines or on 2/4-Wire 3002 unconditioned leased lines.

RECEIVER SENSITIVITY

- -10 thru -43 dBm Switched Line
- 0 thru -33 dBm 4-W Leased Line

LOSS OF CARRIER

- Leased line to auto dial operation: programmable
- Dial mode to disconnect: programmable

TERMINAL INTERFACE

RS-232-D, V.24

POWER REQUIREMENTS

- SMTR or UCSA-03: 115 VAC (+10%, -15%)@ 5 W Max
- SMTR or UCSA-03: 230 VAC (+10%, -15%)@ 5 W Max
- SMTR or UCSA-48: 48 VDC (+20%, -15%) @ 5 W Max
- UCSA-24: 24 VDC (+20%, -15%) @ 5 W Max

ENVIRONMENTAL

- Operating Temperature: 32° to 122° F (0° to 50° C)
- Storage Temperature: -4° to 158° F (-20° to 70° C)

RELATIVE HUMIDITY

10 to 90% noncondensing

POWER CONSUMPTION

5 watts maximum per card

DIMENSIONS (D x W x H)

- In UCSA-03/UCSA-48 case: 13.25 in x 9.5 in x 2.25 in
- Card only: 12 in x 6.94 in x 0.75 in

Ordering Configurations

(Model/Description)

2853-AL1	Rackmount (Leased Line w/ Dial Back Up)
2853-PB1	Rackmount (Leased Line Original)
2853-PB2	Rackmount (Leased Line Answer)
2853-PB3	Rackmount (Leased Line Original w/ Dial Back Up)
2853-PB4	Rackmount (Leased Line Answer w/Dial Back Up)
SMTR-01	(Smart Rack universal chassis)
UCSA-03	(110/230 VAC Standalone enclosure)
UCSA-48	(-48 VDC Standalone enclosure)
UCSA-24	(-24 VDC Standalone enclosure)

CLEI/CPR Codes

- **2853-PB:** DSCPD0F9AA/255011-8
- **SMTR-01:** DSDM90E8-RA/100977
- **UCSA-03:** DSDM87F8-RA/100974