AJ 2885P-SDM SCADA

THE UNIVERSAL PROFESSIONAL MODEM

Features

- Modem designed for the harsh environments
- Modulation according to UIT-T V8, V34 (2400 to 33,600 BPS), V32Bis, V32, V22Bis, V22, V29 (4W), V23, V21 and Bell 202 T
- Dial-up PSTN and 2 / 4 wires Leased Line (LL)
- LL with automatic back_up over PSTN, according to a set-up of authorized/prohibited periods
- Management of the quality of transmission
- Data compression and Error correction NMP4-5, V42 and V42Bis
- Full and half duplex mode V13, V23 (alternate and full duplex 1200/1200)
- User interface: V28 / RS232 and V11/X21, V35
- Line rate: 300 to 33,600 bps
- Terminal rate: 300 to 115,200 bps , Autobaud with AT command
- AT, V25Bis async, HDLC, BSC dial-in command
- Automatic dial back: permanent or in case of bad line
- Detection of DTMF coding
- LCD 2 lines with 3 buttons
- Memories of full settling: 5 factory and 5 users
- Central site in rack AMS-16 and management card CFIP: centralized management with alarm, SNMP
- Relay for alarm and remote action,
- Security of access: login password, call-back, answer-back
- Phone and login list for 100 numbers.
- Metal box
- Power supply: AC 100 to 240V and DC 48, 24 or 12 V on order

The AJ 2885 P is the major professional analog modem of CXR Anderson Jacobson, leader in the design of modems for the last thirty years. This range of modems guarantees the performances, reliability, the safety and the great richness of functionalities, awaited professionals for their critical applications.

Modem AJ2885P ensures the protected transport of the data 33,600 bps, the transmission of fax to 14,400 bps and provides a rate of 115,200 bps to the terminal.

THE AJ2885P-SDM

Robust data transmissions

This version was conceived in order to meet the requirements of severe environments (disturbed lines, electrical disturbed environments, hardened climatic conditions...). CXR Anderson Jacobson has concentrated all of this modem's know-how in the new industrial equipment 2885P SDM. This modem is the guarantee to carry out your data transmissions in all reliability, over switched public network PSTN or over leased lines 2 or 4 wires.

Rapid and multimode

The 2885P is accepting a maximum speed to its terminal interface of 115,2Kbps and supports all the rates of transmission in line from V21 (300 bps) up to V34 (33,6 Kbps) as well in asynchronous than in synchronous mode.

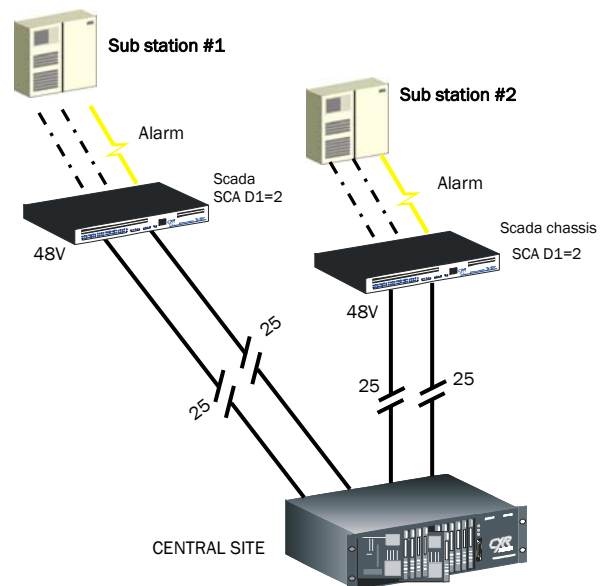### LCD display and small keyboard with Menu

The modem 2885P-SDM could be entirely set-up via a RS232 terminal, or from the front face. A mini keyboard makes it possible to set-up the equipment over a structured menu tree, with all parameters full listed. During connection, this LCD visualizes the principal parameters of the transmission. This system of configuration is particularly adapted to the synchronous applications. The setting parameter of the distant modem can be managed from this LCD and his small keyboard.

Securities of Access

Password: The local access to the exploitation and the parameter setting of the modem require a login password with 2 levels of safety. **Call back:** On a call from a modem with a login password the modem close the communication and recall the distant modem according of his database of 100 modems and passwords. This mode is usable in all case of asynchronous and synchronous connections. **Answer back:** During the phase of authenticating, both modems are exchanging automatically two strings of characters.

Automatic back-up of leased line connections

During leased line transmission, the modem 2885P SDM is measuring permanently the quality of transmission and it will manage automatically the back-up over dial-up on PSTN. The monitoring system will

start the return to the Leased Line mode automatically when the quality of the connection allows it.

Adapted to the industrial uses

Its metallic case makes 2885P SDM very resistant to the external electromagnetic disturbances. The additional line protections give it more strength in case of inductive signal on the leased lines. The integrated power pack supports a broad range of voltage or frequencies without deteriorating the quality of the transmissions. On order the 2885P-SDM could be fed from one DC power line 12, 24 or 48V. The relay of alarm of the 2885P-SDM makes possible the monitoring of the active link or the transport of an emergency action towards the central system, through dry contacts. This relay could be used to activate an action remotely over the modem transmission. The 2885P-SDM desktop is compatible with the rack card 2885P-PRF integrated in the 19" rack AMS4 or AMS16.

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Industrial multimode modem

THE SCADA

The chassis SCADA has the capability to integrate one or two 288P-SDM modem in a 19'' shelf and gives a full redundancy of modems and the transmission.

We are on the Web!
Visit us at
www.cxr.andserson-jacobson.com

Multimode industriel modem

PRODUCT SPECIFICATIONS

- Modes of transmission: V34 (n x 2400 from 2400 to 33600 bps), V32Bis (14400, 12000, 9600, 7200 Trellis coding), V32 (9600, 4800), V22Bis (2400), V22 (1200), V23 (1200/75 and 75/1200 asynchronous, et 1200/1200 asynch/ synch over 4wires LL on Bxx and Txx version), Bell 202T (1200/1200 over 4 wires LL on Bxx et Txx versions), V21 (300), V29 (9600, 4800 over 4 wires LL on Txx version).

- PSTN access: 2 wires, RJ11

- Leased Line access: 2 or 4 wire, RJ11

- Impedance: 600 Ohms, symmetrical

- Working Mode: full duplex or half duplex (V23 or V13 in V22, V22Bis, V32, V32Bis, V34)

- Synchronous mode: Internal clock, external or slaved (reception)

- Asynchronous data : 8, 9, 10 or 11 bits

- Error correction and data compression in asynchronous: MNP4, MNP5, V42, V42Bis

- Transmission level: 0 to –24 dBm per step of 2 dBm

- Reception level: -10 to –43 dBm

- Flow control: RTS-CTS or Xon-Xoff (character DTE/DCE et transparent setups)

- User interface : RS232 / V24-V28, or X21/V35 per jumpers. Signals : TD, RD, RTS, CTS, DSR, DTR, CD, TCK, RCK, XCK, RI, TI, LAL, RDL, Backup_Ind,

- Tests : according to V54, B2 remote loop, B3 local loop, distant loop V42, local and distant test loop. Test activation par AT command or V24 (LAL / RDL) signal.

- Command mode: AT or V25Bis asynchronous or synchronous BSC / HDLC

- Dialer: AT, V25Bis (asynchronous, synchronous), DTR / 108-1, front button

- Front Face : LEDs DTR, DSR, CD, TD, RD, Line, 3 buttons keyboard, LCD 2 lines of 16 characters

- Temperature: Working 0–45°C, Stocking -10 – 70°C

- Humidity: 90% without condensing

- Size: 295x170x40 mm (D x L x H)

- Power consumption of the different version: 2 W (FTV) to 6 W (TDI)

2885P A FULL RANGE OF PROFESSIONAL MODEM-

AJ 2885P-FTV : PSTN plastic desktop modem, multimode V21 to V34 (33.6 KBPS), asynchronous and synchronous, user interface RS232 / V24-V28, fax mode at 14.4 Kbps delivered with RTE-Fotowin fax software. External 100/230Vac to 5V power supply.
All other versions are including:
identical except NO fax, plus user interface RS232 / V24-V28 and X21/V35, Leased Line 2 and 4 wires with automatic back-up
AJ 2885P-FPx : this version adds fax at 14.4Kbps. Box and power supply are depending of 'x' choice.
AJ 2885P-BPx : this version adds Bell 202 T, V23 full duplex 1200/1200bps over 4 wire LL in synchronous and asynchronous modes.
Box and power supply are depending of 'x' choice.
AJ 2885P-TPx : this version adds Bell 202T, V23 full duplex 1200/1200bps, V29 4.8-9.6 Kbps over 4 wire LL in asynchronous and synchronous.
Box and power supply are depending of 'x' choice.

Option 'x' :
V : Plastic case with external power suply 230 Vac
C : Plastic case with internal DC 48v power
R: Rack card for AMS4 and AMS16 (no LCD)

2885P-SDy: includes LCD with 3 keys of keyboard, alarm relay. Metallic case and power according to 'y' choice.
AJ 2885P-TDy : includes Bell 202T, V23 full duplex 1200/1200 bps, V29 4.8-9.6 kbps over 4 wires LL in asynchronous and synchronous. LCD with 3 keys of keyboard, alarm relay. Metallic case and power according to 'y' choice.

Option 'y' :
M : Internal AC 100-240Vac 50-60Hz
N : Internal DC 48 Vdc

Options :
OPT TROP : special protection for humid environment
OPT 12V,24V or 36V : DC power supply
CA 100766 : X21/V11 cable DB25 to DB15
CABLMAC : DB25-DIN8 cable for Apple Macintosh

Information on this data-sheet is subject to change without notice and should not be construed as a commitment by CXR.

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