

JS-300-C Digital Cellular Modem

CDMA/PCS RS-232 Wireless Data Modem

800MHz and 1900MHz Cellular/PCS RS-232 Modem
Compatible With Almost Any Remote Monitoring Equipment

Works just like a standard land-line modem without the wires!

*The reliable, cost effective, self contained solution for remote telemetry,
meter reading and data communication applications*



**WORKS IN 97% OF NORTH AMERICA
REMOTELY PROGRAMMABLE
DIAGNOSTIC LED'S FOR STATUS REPORTING**

- **DB-9 RS-232 port and terminal block connection**
- **Connects to any RS-232 device, such as dataloggers, hand held computers, PLC or terminal screens for dispatching**
- **Communicate wireless data from almost anywhere in North and South America**
- **CDMA coverage has the biggest foot print nationwide**
- **Can be used in any country that has CDMA PCS or CDMA cellular wireless providers**
- **4 sleep windows for power saving in solar applications**
- **No FCC license required**

Standard Features

- **CDMA 800/1900MHz**
Cellular IS-95A/B, IS-707
- **3 wire RS-232 connections**
can be programmed to work in dump mode.
- **RS-232 Ports, DB-9 and terminal blocks**
- **IS-707A service SMS commands**
- **SMS via AT commands**
- **Inputs available for cry-out alarms**
- **Remotely Programmable**
- **Remotely monitor, Signal strength, input voltage, set sleep windows, change AT-Commands, PRL and mobile telephone number without going to the remote site**
- **OTP (Over The Air Programming) with any of the CDS-90XX series products**

J & S Instruments, Inc.

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www.jsinstruments.com

Optional Features

- **1X technology-ready**
when CDMA2000 is available (requires radio module upgrade)
- **TCP/IP stack**

CDS-9022 SPECIFICATIONS, AVAILABLE OPTIONS AND APPLICATIONS

GENERAL SPECIFICATIONS

Power Requirements:	10.5-20VDC @ 2A (unregulated)
On-Board Backup:	3.6V 200MA (CR2032) Lithium Cell
Serial I/O:	RS-232, Async, 2 DB-9 and 1 - 8 pos. terminal block Connectors
Control I/O:	12 Pos. IDC compatible header
Command Protocol:	AT Command Set and DataRemote, Inc (DRI) Configuration Menu
LED Indicators:	Power ON, Status, TXD, RXD, DCD, DTR
Modem:	IS-707A compatible, IS-95A/B (MDR verified on IS-95A/B networks)
Vocoder:	8 Kbps CELP, 13 Kbps QCELP, 8 Kbps EVRC
FCC ID:	QVFQCP-2035
Canada ID:	3572291146

RF SPECIFICATIONS

	800 MHz	1900 MHz
Interface Standards:	TIA/EIA, IS-95A/B	J-STD-008
Operating Frequencies:	TX: 824-849 MHz RX: 869-894 MHz	TX: 1850-1910 MHz RX: 1930-1990 MHz
RF Power:	200mW (EIRP Nom.)	200mW (EIRP Nom.)
Maximum TX Power:	+23dBm Min.	+23dBm Min.
Receiver Sensitivity:	>-104dBm @ 0.5% FER	>-104 dBm @ .05% FER
Frequency Stability:	< ± 2.5 PPM	< ± 2.5 PPM
Antenna Interface:	50 ohm, TNC	50 ohm, TNC

PHYSICAL SPECIFICATIONS

Size:	6.5"L X 3.7"W X 2.5" H
Weight:	24.0 Oz.

ENVIRONMENTAL SPECIFICATIONS

Temperature:	Operating: -30° C to +60° C Storage: -40° C to +70° C
Humidity:	0-95% (non-condensing)

AVAILABLE OPTIONS

- Custom scripts for ProComm+® for remote access
- Remote equipment sensing and control

STANDARD FEATURES

- Authentication (CDMA)
- Preferred Roaming List
- IS-707A service SMS commands
- SMS via AT-Commands
- TCP/PPP
- Update PRL while unit is in the field
- DRI Config menu remotely or locally programmable
- Inputs for cry-out alarms
- Upgradeable to CDMA 1X technology when available

TYPICAL APPLICATIONS

- Automatic meter reading
- Security system monitoring via RS-232
- Slow-speed video applications
- Heavy equipment monitoring
- Traffic metering and programming highway displays
- Connects to RTU's, PLC's, Data loggers, etc. through a DTE RS-232/485 port
- Flood control monitoring
- Remote equipment sensing and control
- Pre-programmed emergency calls to 911 or dispatcher

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