

# JS-300-D Digital Cellular Modem



The CDS-9060 is a reliable, cost-effective, self-contained solution for remote meter reading and data communications applications. This rugged wireless data modem has long been the choice of companies and utilities looking to solve their wireless data needs. The CDS-9060 is incredibly versatile and supports CDMA dual mode – both circuit-switched and 1xRTT packet-switched services – as well as SMS and analog data transmissions. A GPS-enabled model is also available.

## Easy to Use and Set Up

- *The CDS-9060 has been designed with the end user in mind. A simple-to-use configuration menu makes it easy to program the unit both locally and remotely – eliminating the need to travel hundreds of miles to a remote device. Seamless 1xRTT CDMA packet data sending and receiving is provided by the built-in TCP/IP stack. The unit is also smart enough to act like a PLC, providing 6 inputs and 6 outputs.*

## Self-contained Solution for Remote Meter Reading and Data Communications

### Distinctive Features

- Complete network approvals (approved by all major carriers)
- Acts like a PLC with 6 inputs/outputs controlled via DRiP
- Easy trouble-shooting via configuration menu
- 4 sleep windows for power-saving in solar applications
- Internal signal-strength meter
- Switches from CDMA to analog mode automatically (requires optional analog modem)
- FCC and Canada certified RF
- Easy set up includes customer support
- Customer support provided by wireless data experts

### Typical Applications

Automatic Meter Reading (AMR), Remote Point of Sale (POS), Wireless Telemetry, SCADA, Video Monitoring, Traffic Sensor Monitoring, Alarm & Equipment Monitoring, Automatic Teller Machines (ATM), Short Message Service (SMS), Automatic Vehicle Location (AVL)

### Standard Features

- Packet-switched data (1xRTT CDMA)
- Circuit-switched data (IS-95)
- SMS via AT-Commands over CDMA
- Dynamic IP management
- TCP/IP stack
- PPP/TCP/UDP/MIP/DMU/PAD
- Remote updates to PRL
- Simple modem configuration – remotely or locally
- 3 input triggers for cry-out alarms via SMS
- Optional analog modem (300bps to 33.6bps)
- Optional RS-485 for multi-drop applications



### General Specifications

Standards:	Packet-switched data (CDMA 1xRTT), Short Message Service (SMS), circuit-switched data (IS-95), analog data
Power Requirements:	10-48VDC @ 1.2A (unregulated)
On-Board Backup:	3.6V 200MA (CR2032) Lithium Cell
Serial I/O:	RS-232 Async (optional terminal block for RS-232)
Control I/O:	12 pos. IDC header, 6 inputs/6 outputs (send cry-out alarms via SMS to your cell phone)
Command Protocol:	AT command set and DataRemote, Inc (DRiP) configuration menu
LED Indicators:	Power ON, Signal Status, TXD, RXD, DCD, DTR, AUX
CDMA Modem:	MSM-5105 (1xRTT; IS-95A/B - MDR verified)
Optional:	AMPS modem (Conexant chipset 300bps to 33.6bps)
Vocoder:	8 Kbps CELP, 13 Kbps QCELP, 8 Kbps EVRC

RF Specifications	800 MHz	1900 MHz (CDMA)
Interface Standards:	AMPS: ANSI/TIA/EAI-553 CDMA: 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:	AMPS: 600mW (EIRP Nom.) CDMA: 600mW (EIRP Nom.)	400mW (EIRP Nom.)
Maximum TX Power:	AMPS: +26.7dBm Min. CDMA: +23dBm Min.	+23dBm Min.
Receiver Sensitivity:	AMPS: >116dBm @ 12dB Sinad CDMA: >-104dBm @ 0.5% FER	>104 dBm @ .05% FER
Frequency Stability:	< ± 2.5 PPM	< ± 2.5 PPM
Antenna Interface:	50 ohm, TNC	50 ohm, TNC
Current:	Normal current draw = 53ma in Idle Mode (can vary from network to network)	



### Physical Specifications

Size:	6.3"L X 4"W X 1.2" H
Weight:	23.0 Oz.

### Environmental Specifications

Temperature:	Operating: -30 C to +60 C (-22° to 140°) Storage: -40 C to +70 C (-40° to 146°)
Humidity:	0-95% (non-condensing) 95° F (35° C)



Optional NEMA-4x Enclosure for Harsh Conditions

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Features may change without notice.