

The DPX-213

Ultra Low Power MNP5 Dial and Leased Line Modem



The DPX-213 is a dial and leased line modem that operates off normal mains power, battery, solar panels or any other low power source. These characteristics, along with its small size and low cost make it the ideal modem for remote communications, monitoring and diagnostics. The ultra low power consumption of the DPX-213 ensures long battery life, alternatively a battery can be connected in standby mode where the mains power is unreliable.

► FEATURES

Remote Data - Error Free

The DPX-213 is a compact, full-featured data modem for professional data communications. It is ideal for medium volume data transfers where error free data on any dial or leased line is essential. Low power consumption and the ability to operate from a battery or mains power supply make it particularly suitable for remote applications.

Alternate Alarm Dialling

A second number is dialled in the event of failure of the first dial (such as when the line is engaged or a bad line condition exist).

Dialback Password Protection

The user must enter a name and number. If these details are entered correctly, the user is prompted for a password. If the response is correct, the modem disconnects and dials back on that number.

World Class Performance

Advanced Digital Signal Processing and adaptive equalisation ensures that the DPX-213 delivers accurate data over the widest range of phone lines.

High Throughput

MNP 5 with selective block retransmission ensures highest throughput - ideal for general purpose file transfers, point of sale data collection, telemetry, remote control of any application where fast, economical and error free data transfer is required. Data transfer of 4800bps with MNP 5 can be achieved with most files. Incompressible files are sent error free at 2400bps.

Non Volatile Storage

450 characters in 10 locations allows up to 10 phone numbers to be stored. An autodialling alarm function allows storage of 3 messages that will be sent on closure of an external contact.

Extensive Diagnostics

Diagnostics include LEDs for on-line activity display and AT command activated local and remote loopbacks.

Performance and Reliability

Designed by Dataplex and manufactured under the ISO-9001/AS3901 quality control system, the DPX-213 offers advanced design with low parts count for maximum reliability and is housed in a durable plastic case.

PRODUCT SPECIFICATIONS

Modulation:	<ul style="list-style-type: none"> ▪ 2400bps QAM V.22bis ▪ 1200bps DPSK V.22 ▪ 1200bps DPSK Bell 212 ▪ 300bps FSK V.21 ▪ 300bps FSK Bell 103
Data Format:	<ul style="list-style-type: none"> ▪ Asynchronous 8 to 11 bit character format including parity and stop bits. ▪ Synchronous serial binary protocol independent 1200 or 2400bps.
Operation:	Full duplex over 2 wire dial and leased lines. Automatic or manual originate or answer.
Data Compression:	MNP5 with selective block retransmission, up to 200%
Error Correction:	MNP4.
Constant Speed Interface:	Autorate at 300, 1200, 2400, 4800 and 9600.
Non-Volatile Storage:	450 characters in 10 locations.
DTE Interface:	ITU-T V.24 / V.28 / X.21bis, RS-232-C via 25 pin DB-25S [female] socket.
Line Interface:	Modular RJ-11 sockets.
Transmit Level:	-10 to -23dBm.
Transmit Clocking:	Internal or Loop
Guard Tone:	Selectable - none, 500 or 1800 Hz
Ring Detection:	Level 50 to 150 VAC RMS.
Receiver Dynamic Range:	-6dBm to -45dBm.
Equalization:	Auto Adaptive Equalizer.
Carrier Detect Threshold:	ON above -43dBm, OFF below -45dBm.
Hysteresis:	2dB
Answer Tone:	<ul style="list-style-type: none"> ▪ ITU-T mode - 2100Hz. ▪ Bell mode - 2225Hz
Disconnect:	Loss of carrier configurable 0.1 to 2.55 seconds.
Power:	240 VAC, 50-60Hz, 7-20VDC, 20-70VDC option, 875mW max, standby < 10mA.

Dimensions:	127.8[w] x 130[d] x 20[h]
Weight:	279g Unit, 194g Power Supply
Environment:	0 C to 85c, 95% humidity non-condensing.
Austel Approved:	Yes
Warranty:	12 months warranty

ORDERING INFORMATION	
DPX-213-01	240VAC Standard Mains Operation
DPX-213-02	7 - 20VDC Standard DC Operation
DPX-213-03	20 - 70VDC Standard DC Operation
ACCESSORIES	
023-0008-1	RS-232 Data Cable 25 pin (Unisex Ribbon 1 Metre)
023-0091-2	RJ-11 to Telco 610 Socket