



MOTOROLA

Explore the World of Integrated Two-Way Wireless Messaging

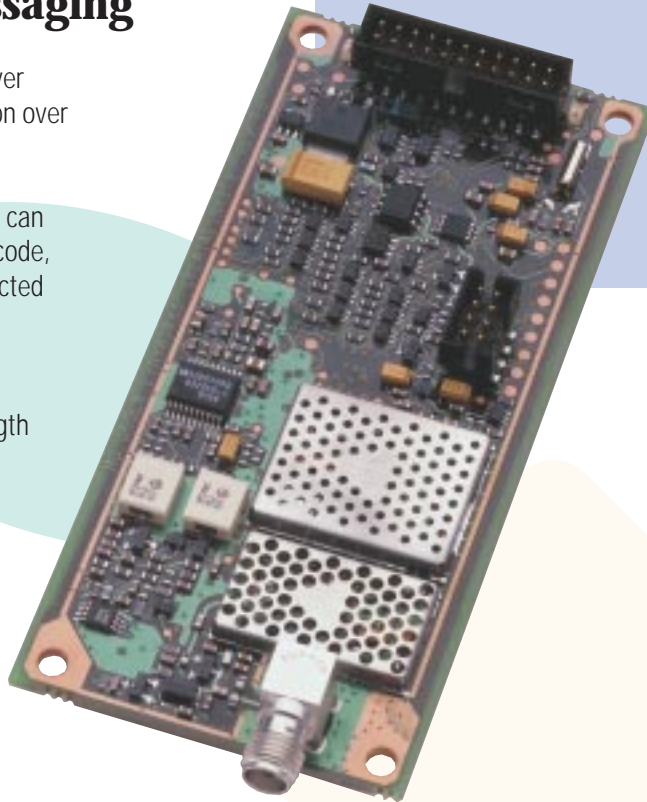
The CreaLink™ 2 XT two-way data transceiver enables low-cost wireless data communication over a ReFLEX™ paging network.

The CreaLink2 XT two-way data transceiver can initiate message transmissions as well as decode, store and forward messages to an interconnected host device.

Ideal for OEM fixed telemetry and other applications requiring moderate message length wireless data communication.

Features confirmed message delivery and supports up to 2,000 bytes of data per transmission.

The CreaLink2 XT transceiver can execute a 3rd party embedded application.



Product Features

- ▶ Uses FLEX™ Technology - cost effective wireless medium for moving moderate amounts of data
- ▶ Performs all necessary ReFLEX protocol processing to:
 1. maintain connection to the ReFLEX paging network
 2. accurately receive and acknowledge messages
 3. deliver messages in a manner which complies with protocol requirements
- ▶ Supports broadcast group and individual outbound messaging
- ▶ Robust Temperature Specification: -40° to +85°C
- ▶ CLP™ - Communication Linking Protocol - allows for easy interfacing to other devices via a standard RS232 or TTL serial interface with connector
- ▶ Eight individually configurable bi-directional parallel I/O signals:
 1. allow for control and monitoring of discrete signals
 2. status can be routed over the serial port for external processing or internally processed by a 3rd party application
- ▶ For 3rd party embedded applications, 40K of flash program memory and 32K+ of RAM storage are provided along with source level debugging tools.
- ▶ Compact single board OEM level product in a form factor that facilitates mounting in an off-the-shelf housing.
- ▶ Battery connector interface is available for applications requiring backup battery or a secondary power source during transmissions

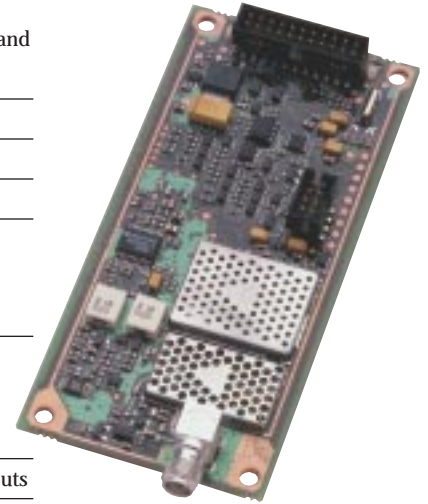
CREALINK™ 2 XT
ReFLEX™ Two-Way Data Transceiver

Available January 1999

Hardware Specifications

General Specifications

Item	Specification
22 pin connector	keyed Male 2mm pitch header, Molex Mini-Grid 87332-2220, used for power, ground, serial communications, parallel I/O, A/D and backup transmit power source
8 pin JTAG connector	keyed Male 2mm pitch header, Molex Mini-Grid 87332-0820
Coding Format	ReFLEX
Operating Temperature	-40C to +85C
Power Supply Requirements	
Main Supply	5-12 V _{DC} , 1.4A minimum, 100mV p-p up to 5MHz ripple and 2A maximum if sourcing current on output pins
Power Backup/Transmit Supply	Backup: 3Vdc minimum Transmit: 5vdc minimum, 1.4A maximum, 100mV p-p up to 5 MHz ripple
Serial Port Specifications	RS232 compliant or TTL compliant via designated connector pinouts
Parallel Port Specifications	Outputs: Open collector or TTL compliant via designated connector pinouts
A/D Port Specifications	Voltage range: 0-2.5V Resolution: 10 bit S/N Ratio: 58dB Ref voltage: 2.5 volt internal reference
Physical Dimensions (board level device)	Length 3.75 inches Width 1.75 inches Thickness (w/o standoffs) 0.70 inches
Antenna	External female SMA connector



ReFLEX™
Two-Way
Wireless
Messaging

Transmitter Specifications

Item	Specification
Frequency	ReFLEX NBPCS Networks (901-902 MHz)
RF Power Output (at antenna port)	1.75-2.0 Watt Preliminary
Transmit Data Bit Rate	ReFLEX 25: 800, 1600, 3200, 9600 bps ReFLEX 50: 9600 bps
Frequency Stability	1 ppm on transmit

Power Consumption

Operating Mode	Current Drain
Standby	1 mA Preliminary
Receive	45 mA Preliminary
Transmit	1.4 A Preliminary

Item	Specification
Frequency	929-942 MHz
Receive Data Bit Rate	6400 bps

Specifications are subject to change.



MOTOROLA