

RF Transceiver SureLink 915A-FM QuickLink 232A Programmers **EMP-10** EMP-11 **EMP-20 EMP-21 EMP-30 EMP-31** Prices/Accessories **EMP-10** EMP-11 **EMP-20 EMP-21 EMP-30 EMP-31 EBC Adapters** Misc Accessories Devices **EMP-10** EMP-11 **EMP-20 EMP-21 EMP-30** EMP-30 (DOS) **EMP-31** Distributors International **Domestic** Downloads Software **Documents** Support/Info

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RF Transceive SureLink 9

Ouanti Call Needham's Staff at (916)



RF 101

The SureLink 915A-FM

The Needham's Electronics RF transceiver, the SureLink 915A-FM, gives yo solution with the ability to transmit information point to point or point to mul of sight. Most other wireless solution require you develop a working solution is need with our RF transceivers is a module to send, a module to receive, pov that needs to be sent. Used in conjunction with the QuickLink 232A and you PC, a version of the software will be available to download soon.

The SureLink 915A-FM has the capability to transmit data at 76.8K BPS up t BPS up to 1000 FT distance in a urban setting. This low power module is gre in acquiring information from a remote location, home automation, instrumer monitoring, remotely controlling circuits or in anything you can dream of.

For customers looking to integrate the SureLink into their existing or new pro

Electronics RF design services are available. Depending on the amount of we the cost will vary. The SureLink 915A-FM utilizes both a Xemics 1202 and a antenna.

As with the entire line of products that Needham's Electronics has designed a this RF Transceiver Module is built using quality product and care. All manuproduct is done in house to insure that the quality that Needham's Electronics known for will always be there.

Any questions or comments please feel free to call our support staff at (916) 9

Header Connections									
Pin ¹	1	2	3	4	5	6			
Description	IO1	IO2	IO3	IO4	IO5/AD1	IO6/AD2	IO7		
Pin ¹	9	10	11	12	1	3			
Description	IO9/SI	IO10/S0	Reset	IO11/FO/AD5	VEnable		G.		

Mode Settings

Demo Mode: Use this mode to ensure a connection can be established and te a given distance and Data Rate. By depressing the momentary switch on the (or TX LED on the other QuickLink will light. A connection to a PC is not new Mode.

Cable Link Mode: As a RS-232 cable replacement the SureLink transmits at data point to point. If using the QuickLink 232A the DB9 Serial and DB9 Flo can be swapped with a couple of flips of a jumper. If the SureLink is directly no swapping of these lines is needed.

Command Mode: This allows the SureLink to connect and read or write the Flash memory; UART, and configure or read the I/O and A/D pins of itself or unit Peripheral SureLink. The command unit can give the requested data from satellite units using the command set to the user serial device. This mode can point or point to multipoint.

AT Command Mode: Using the basic AT modem commands to dial a specific the user can transmit and receive RS-232 data point to point or point to multip these satellite SureLinks. The internal registers, Flash memory, UART, I/O at disabled in the mode; it is only for serial data.

Peripheral Mode: The setting for both AT and Command modes. Multiple s used with both modes. To set the unit address a QuickLink needs to be used t unit.

RC Mode: Gives the user the ability to remotely control any of the 10 I/O po Mode SureLink point to point. Although the is a master and slave set the condirectional, any of the 10 I/O pins can be set as either input or output as long SureLink is configured to the opposite. An example would be if the master ur configured as an input the corresponding pin on the slave unit must be set as a

want to have pin 3 on the slave unit to have the ability to toggled high and low master unit will be set as an input and pin 3 on the slave unit will need to be s. When pin 3 is raised high on the master transceiver the corresponding pin 3 or raise to match.

Control Connections								
Pin ¹	1	2	3 4	5 6				
Control Signals	Mode	Speed	Baud Rate	Channel	M			
Command	Demo Mode	4.8K BPS	Demo Mode	Channel0				
Pin Settings	Gnd	High	High High	Gnd Gnd				
Command	Cable Link	19.2K BPS	300 BPS	Channel1				
Pin Settings	Gnd	Float	Gnd High	Gnd Float				
Command	Command Mode	76.8K BPS	1200 BPS	Channel2				
Pin Settings	High	Gnd	Float Float	Float Gnd				
Command	Peripheral Mode		2400 BPS	Channel3				
Pin Settings	Float		High Gnd	Float Float				
Command	R/C Mode		4800 BPS	Channel4				
Pin Settings	Float		Float High	Low High				
Command			9600 BPS	Channel5				
Pin Settings			Float Gnd	Float High				
Command			19.2K BPS	Channel6				
Pin Settings			High Float	High Gnd				
Command			38.4K BPS	Channel7				
Pin Settings			Gnd Float	High Float				
Command			57.6K BPS	Channel15				
Pin Settings			Gnd Gnd	High High				

¹ Pins are numbered left to right viewed from solder side

Features

- Calibrated OnBoard Temperature Sensor
- Small Size W/ OnBoard Antenna
- RS232 Data Full Duplex
- Auto Error Detection and Retransmission
- 11 User I/O ports are available
 - o 5 Ports of 10 Bit A/D are available

- o RS232 with flowcontrol is available using 4 pins
- o All ports are 0 3.3 Volts
- Modes
 - o Point to Point
 - o Point to MultiPoint (Up to 65000 Units)
- Up to 16 Channels (4 User Configurable)
- Auto Compensation for Crystal Drift due to Temperature
- Onboard Regulator w/ Shutdown
- 5.0 Volt Tolerant I/O

WIRELESS SOLUTIONS				
WINDERSON	SureLink 915A-FM			
RF Data Rate	4.8K, 19.2K, 38.4K, 76.8K bps			
Serial Baud Rate	300 to 57.6K			
Spread Spectrum	No			
In-City Range (high data rate to low data rate)	300-1000 FT			
Line of Sight Range	Over 1000 FT			
Transmit Power	-3 DBM			
Receiver Sensitivity	TBD			
TDMA current consumption	TBD			
Rx current consumption	TBD			
Transmit Frequency	902-928 MHz			
Security	128 bit encryption			
Checksum	32 bit CRC			
Connection	15 pin .1 spacing header			
Operating Voltage	3.5-12 Vdc			
VEnable Voltage	0-5 Vdc			
Fcc Approved	pending			
Size	44mm X 60mm X 4.85mm			
Cost (quantity price available)	\$59.95			