

Phone: (800) 736-6677 Int: +1 541-471-6256 Email: info@linxtechnologies.com Address: 159 Ort Lane, Merlin, OR 97532



AMPLIFIED HUMPRO™ SERIES LONG-RANGE TRANSCEIVER MODULE

The Amplified HumPRO[™] Series RF transceiver module is the easiest-to-implement solution for simple long range wireless connections. Unlike other pre-certified modules, it has a best-in-class real-world range of over 12.9km (8 miles) with sustained data rates 200 - 1,500 times higher than competing protocols. The Amplified HumPRO's pre-compiled software supports many common use cases out-of-the-box at 50% of the total cost of implementation of comparable solutions.

Designed to transmit digital data across a long-range wireless link, the module is a completely integrated RF transceiver and processor. With a built-in frequency hopping protocol that manages all of the transmission functions, no on-chip programming is required. Simply configure a few registers with a binary command set.

APPLICATIONS

ROBUST RANGE WITH NO INTERFERENCE
INTERNET OF THINGS (IOT)
MACHINE TO MACHINE
WIRELESS SENSOR NETWORKS
REMOTE CONTROL AND STATUS MONITORING
INDUSTRIAL AUTOMATION

BENEFITS

EXTRAORDINARY RANGE OVER 12.9 KM (8 MILES)



PRE-COMPILED SOFTWARE

STANDARD UART INTERFACE

FULLY INTEROPERABLE WITH ALL HUMPRO™ & HUMPRC™ DEVICES & GATEWAYS



128-BIT AES ENCRYPTION

PRE-CERTIFIED

CONTACT LINX ENGINEERING FOR MORE INFORMATION

Phone: (800) 736-6677 Int: +1 541-471-6256 Email: info@linxtechnologies.com Address: 159 Ort Lane, Merlin, OR 97532

SPECIFICATIONS BLOCK DIAGRAM Host MCU 2.7 to 3.6VDC **Operating Voltage** 25.70 x 16.66 x 2.90 mm Dimensions (1.01 x 0.66 x 0.12 in) Max Output Power @19.2kbps RF Rate 25dBm @153.6kbps RF Rate 22dBm **TX Supply Current** @25dBm 380mA @22dBm 260mA GPIOs UART 39mA **RX Supply Current** Power Down Current <1µA **RX** Sensitivity Linx @19.2kbps RF Rate -108dBm Pair Button Antenna @153.6kbps RF Rate -101dBm **Operating Frequency Band** 902 - 928MHz **Real-World Range** Up to 12.9km (8 miles)* **Operating Temperature Range** -40 to +85°C *Depending on implementation and environment

ORDERING INFORMATION

Mode Indicator

Part Number	Description
HUM-A-900-PRO-CAS	Amplified HumPRO [™] Series High Power Data Transceiver, Castellation Interface, External Antenna Connection
HUM-A-900-PRO-UFL	Amplified HumPRO [™] Series High Power Data Transceiver, Castellation Interface, u.FL Connector
EVM-A-900-PRO-CAS	Amplified HumPRO [™] Series Carrier Board, Thru-Hole Pin Interface, RPSMA Connector
EVM-A-900-PRO-UFL	Amplified HumPRO [™] Series Carrier Board, Thru-Hole Pin Interface, u.FL Connector
MDEV-A-900-PRO	Amplified HumPRO [™] Series Master Development System

CONTACT LINX ENGINEERING FOR MORE INFORMATION