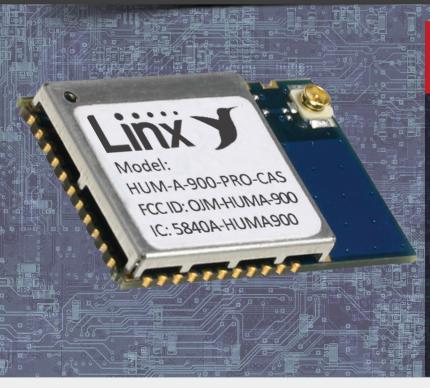


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# AMPLIFIED HUMPRO™ SERIES LONG-RANGE TRANSCEIVER MODULE

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.

#### **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** 



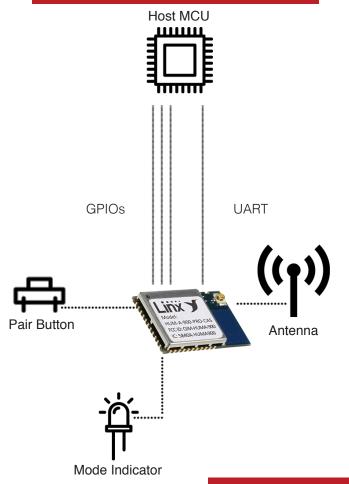
**PRE-CERTIFIED** 

#### **APPLICATIONS**

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



# **BLOCK DIAGRAM**



# **SPECIFICATIONS**

Operating Voltage	2.7 to 3.6VDC
Dimensions	25.70 x 16.66 x 2.90 mm (1.01 x 0.66 x 0.12 in)
Max Output Power	
@19.2kbps RF Rate @153.6kbps RF Rate	25dBm 22dBm
TX Supply Current @25dBm @22dBm	380mA 260mA
RX Supply Current	39mA
Power Down Current	<1µA
RX Sensitivity	
@19.2kbps RF Rate @153.6kbps RF Rate	-108dBm -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**

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**

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