

## COST EFFECTIVE RADIO MODEM FOR FAST DATA TRANSMISSION



### HIGH PERFORMANCE WIRELESS DATA LINKS

HX-DU8616D SE is an advanced, high speed, high power wireless data link built to withstand the demanding conditions of GNSS/RTK surveying and precise positioning. Its max 30W power maximizes range and enables you to work in difficult terrain and urban areas. It is designed with a ruggedized IP67 weatherproof enclosure to withstand extreme environments.

### INTELLIGENT SERIAL BAUD RATE IDENTIFICATION

HX-DU8616D SE supports intelligent serial baud rate identification function for different RTK devices. It can automatically identify RTK serial baud rate with radio data cable and provide a plug and play form for easy connection between eRadio and RTK.

### USER FRIENDLY OLED SCREEN DISPLAY

The HX-DU8616D SE is equipped with an easy-to-use OLED screen display that allows users to conveniently adjust radio settings and monitor radio status. Users can also select specific functions based on their requirements, such as checking the current baud rate or radio channel.

### MULTIPLE COMMUNICATION PROTOCOLS

HX-DU8616D SE is a highly versatile device that is capable of supporting multiple communication protocols, including ETALK, TRIMTALK™, TRIMMARK™3, Transparent-EOT, SATEL®, and the unique ETALK communication protocol developed by Harxon. With this wide range of communication protocols, HX-DU8616DSE is able to connect and communicate with a variety of different devices and systems.

### KEY FEATURES

- Supports H/M/L three level transmission power(customized)
- Supports serial baud rate identify between 115200bps、57600bps、38400bps、19200bps、9600bps
- Compatible communication protocols of ETALK, TRIMTALK™, TRIMMARK™3, Transparent-EOT, SATEL®
- User friendly OLED screen display
- IP67 rugged protection

## GENERAL

<b>Frequency</b>	410MHz~470MHz
<b>Operating Mode</b>	Transmitter
<b>Channel Width</b>	12.5KHz/25KHz
<b>Channels</b>	Up to 32 programmable channels (user selectable)
<b>Operating Voltage</b>	9V~16V
<b>Power Consumption (Typical)</b>	
Transmit Output Power H:[30W]	85W@12V DC
Transmit Output Power M:[22W]	60W@12V DC
Transmit Output Power L:[5W]	35W@12V DC
Sleep State	2W@12V DC
<b>Frequency Stability</b>	<±1ppm
<b>Ingress Protection Rating</b>	IP67
<b>Dimension</b>	175(H)×130(W)×86.5(D)mm
<b>Weight</b>	2kg
<b>Operating Temperature</b>	-40°C to +65°C
<b>Storage Temperature</b>	-50°C to +85°C
<b>Connector</b>	TNC female
<b>Data Connector</b>	LEMO 5pin

## TRANSMITTER

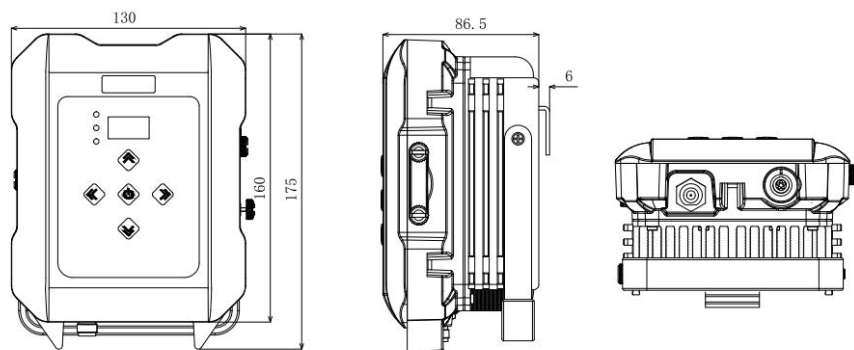
<b>RF Output Power</b>	
H:30W	45.4±0.5dBm @DC 12V
M:22W	43.4±0.5dBm @DC 12V
L:5W	37±1dBm @DC12V
<b>RF Power Stability</b>	±1dB

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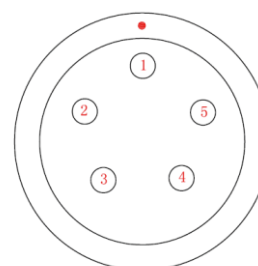
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## Structure Diagram(mm)



Undeclared Tolerance:±0.3mm

## Interface Pin Definition



Interface Type:  
Asynchronous Serial Communication RS232

- Pin 1—POWER SUPPLY, 9~16V DC
- Pin 2—POWER GND
- Pin 3—RXD
- Pin 4—SERIAL PORT SIGNAL GND
- Pin 5—TXD