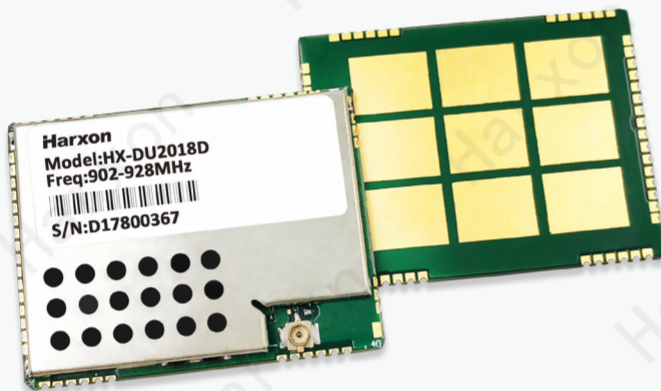


HX-DU1018D OEM Modem

HX-DU1018D OEM Modem provides reliable data communications for mission-critical applications where a combination of stability, supreme performance and long-range communication are required.

It offers a frequency range between 410-470MHz. Also, the frequency band can be customized as required.

HX-DU1018D supports a variety of data transfer protocols, such as TRIMATLK, TRIMMARK3, PCC EOT.



Key Features

- Supports 410-470MHz band range (customized)
- High performance, high reliability
- Compatible with various data transfer protocols
- Miniature Size: 33×26.5×3.5mm
- Only 5 grams!
- Adjustable transmit power 0.5W-1W
- Easy for built-in integration

Industries

HX-DU1018D can be widely used in the fields of surveying and mapping, precision agriculture and UAVs.



Technical Specification

Radio

Frequencies (selectable)	410-470MHz	
Operating Mode	Half-Duplex	
Channel Spacing	12.5KHz~25KHz	
Forward Error Correction	Hamming	
Operation Voltage	3.3V	
Power Dissipation (Typical)	Transmit Of High power	4.0W@3.3V DC
	Transmit Of Low power	2.5W@3.3V DC
	Receiving	0.5W@3.3V DC
Frequency Stability	$\leq \pm 1.0\text{ppm}$	
Dimensions	33×26.5×3.5mm	
Weight	5g	
Temperature (operation)	-40℃ to +70℃	
Temperature (storage)	-40℃ to +85℃	
Antenna impedance	50ohm	

Communication

Data Interface	80Pin SMT
Antenna Interface	IPEX

Transmitter

RF Output Power	High Level (1W)	30.5±0.5dBm@ 3.3VDC
	Low Level (0.5W)	27.5±0.5dBm@ 3.3VDC
Power Stability	±1dB	
Harmonics	> 50dB	

Receiver

Sensitivity	-117dBm@BER 10 ⁻³ ,9600bps
Adjacent Channel Selectivity	> 50dB@25KHz

Modem

Data Link Rate	4.8 kbps、9.6kbps、19.2kbps
Modulation Type	GMSK
Serial Port Baud Rate	9600 bps、19200 bps、38400 bps、57600 bps、115200 bps

Specifications subject to change without notice.

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