



Features

- Supports 410-470MHz or 840-845MHz, or 902-928MHz
- Data link rate: 345Kbps
- Point to Point
- Frequency Hopping Spread Spectrum
- Low cost, High performance, High reliability
- Longer Transmission Distance , Over 50Km In Open Air
- Miniature Size: 33x26.5x3.5mm
- Only 5 grams!
- Adjustable Transmit Power 0.5W-1W
- High Interference Rejection
- Industrial Temperature: -40°C~+70°C

Multi-frequency Hopping Modem HX-DU1018D

Harxon modems provide reliable data communications for mission-critical applications where a combination of stability, supreme performance and long range are required.

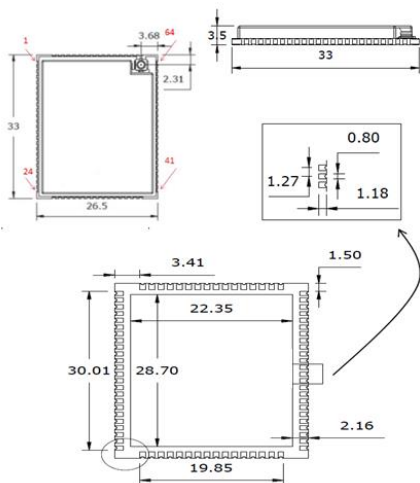
HX-DU1018D is a new duplex radio modem, light weight, small size and stable high performance. It can offer customer selectable from 400MHz, 800MHz, and 900MHz, and also, we can customize the frequency bands as your special requirement.

It is flexible for the users to set the UART baud rate, output power, data rate, frequency select, modulation mode select etc parameters. It is your ideal choice for designing wireless data transmission products which can be widely used on UAV wireless data transmission field.

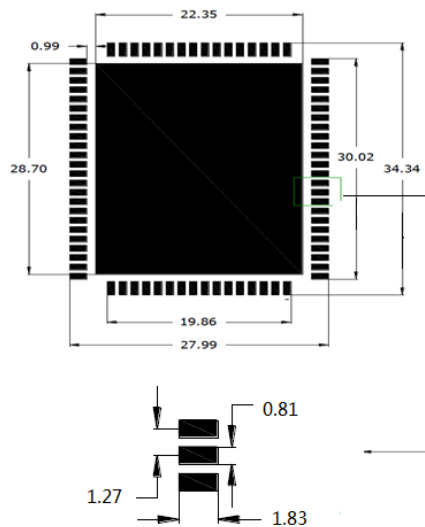
Technical Specifications

Communication		
Serial interface	RS232	
Data interface	80Pin SMT	
Antenna interface	IPEX	
Radio		
Frequency range	410-470MHz or 840-845MHz or 902-928MHz	
Operating mode	Duplex	
Channel spacing	40KHz~250KHz	
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
Frequency stability	≤±1.0ppm	
Size	33×26.5×3.5mm	
Weight	About 5g	
Temperature(ope ration)	-40°C~+70°C	

Temperature(s torage)	-40°C~+85°C	
Antenna impedance	50ohm	
Operating mode	Point-to-Point	
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	-115dBm@BER 10 ⁻³ , 9600bps -108dBm@BER 10 ⁻³ , 115200bps	
Adjacent channel selectivity	>50dB@25KHz	
Modem		
Data link rate	19.2 kbps、38.4kbps、57.6kbps、115.2kbps、172.8kbps、230kbps、247kbps、340kbps	
Modulation type	GMSK, 4FSK	
Serial port baud rate	9600 bps、19200 bps、38400 bps、57600 bps、115200 bps	



Dimension (mm)



Notes:

1. Controlling dimensions are in millimeters.
2. This land pattern is for reference purpose only.
3. Thermal visa in the land pattern of the exposed pad shall be connected to a system ground plane.

Harxon Corporation

www.harxon.com sales@harxon.com
Tel: +86 0755-26989948 Fax: +86 0755-26989994



Orbitica

www.orbitica.com
contact@orbitica.com
+33 (0)5 62 24 31 76

HARXON AUTHORIZED DISTRIBUTION PARTNER