



Features

- **60MHz Bandwidth Coverage 410-470 MHz bands**
Advanced data link design for high performance over entire band.
- **Multi-function user interface**
It was designed for easy mobile use in demand-ing field conditions.
- **Configurable Transmit Power**
Support for 5W and 35W power switching.
- **Software-Derived Channel Bandwidth**
Compatible with both 12.5 and 25 kHz radios.
- **High Environmental Capabilities**
According to the IP67 standard
- **Repeater Function (optional)**
In the same frequency or different frequency.

Base Radio —D30

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

D30 is a high speed, high power, wireless data link built to survive the rigors of GNSS/RTK surveying and precise positioning. This radio's 35W of power maximize range, enabling you to work in difficult urban areas. The D30 is equipped with digital tube, LED and keypad, used to indicate the current operating status, as well as for changing the operating channel and power level of the radio modem. For the most rugged and reliable long-range data link, go with the Geomatics industry's new standard in wireless communications D30.

Technical Specifications

General Specification		
Frequency range	410~470MHz	
Operating mode	Half-duplex	
Channel spacing	25KHz, 12.5KHz	
Modulation type	GMSK	
Operation voltage	12V	
Power dissipation(Typical)	High power level (35W)	≤110W @ DC 12V
	High power level (30W)	≤100W @ DC 12V
	High power level (20W)	≤75W @ DC 12V
	Low power level (15W)	≤60W @ DC 12V
	Low power level (10W)	≤45W @ DC 12V
	Low power level (5W)	≤25W @ DC 12V
	Standby	≤1.5W @ DC 12V
	Frequency stability	≤±1.0ppm
Size	186×140×73mm	
Weight	About 1.5kg	
Temperature(operation)	-30℃~+65℃	
Temperature (storage)	-40℃~+85℃	

Antenna port	TNC, female	
Antenna impedance	50ohm	
Data interface	LEMO 5Pin	
Transmitter		
RF output power	High level (35W)	45.5±0.5dBm@DC12V
	High level (30W)	44.8±0.5dBm@DC12V
	High level (20W)	43±1dBm@DC12V
	Low level (15W)	41.8±1dBm@DC12V
	Low level (10W)	40±1dBm@DC12V
RF output power	Low level (5W)	37.5±1dBm@DC12V
	Power stability	±1dB
Harmonics	>50dB	
Receiver		
Sensitivity	-114dBm@BER 10 ⁻³ , 9600bps	
Co-channel rejection	>-12dB	
Adjacent channel selectivity	>50dB@25KHz	
Modem		
Air baud rate	9600bps、19200bps	
Modulation type	GMSK	
Serial port baud rate	9600 bps、19200 bps、38400 bps、57600 bps、115200 bps	



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