

○ **OLED display screen**

○ **Intelligent baud rate recognition**



○ **Multi-mode operation**

○ **Multiple communication protocols**

SP8635 External Digital Radio

SP8635 is an external high-power transceiver radio specifically developed for the surveying and mapping market, characterized by long communication range, low power consumption, intelligence, and humanized design. It mainly features a high-definition OLED display, menu operation support, intelligent serial port baud rate recognition, intelligent power-on status recognition, interference detection, and remote control capabilities.



ITEM		SPECIFICATION	
GENERAL	Frequency	410MHz~470MHz	
	Operating Mode	Transceiver Transmitter Radio Repeater Network Repeater	
	Channel Width	12.5KHz/25KHz	
	Channels	Up to 32 programmable channels (user selectable)	
	Frequency Stability	<±1ppm	
POWER	Operating Voltage	9V~16V	
	Power Consumption(Typical)	Transmit Output Power Transmit Output Power Transmit Output Power Sleep State 2W@12V DC	H: (28W) 78W@12V DC M: (22W) 60W@12V DC L: (5W) 35W@12V DC
MODEM	Data Rate	4800bps/9600bps/19200bps	
	Data Speed of Serial Interface	9600, 19200, 38400, 57600, 115200bps	
	Modulation	GMSK/4FSK	
TRANSMITTER	RF Output Power	H: 28W M: 22W L: 5W	44.5±0.5dBm @DC 12V 43.4±0.5dBm @DC 12V 37±1dBm @DC12V
	RF Power Stability	±1dBm	
RECEIVER	Sensitivity	<-114dBm@BER 10-3, 9600bps	
DATA COMMUNICATION	Bluetooth	Built-in Bluetooth Antenna Bluetooth Version: 2.0/4.0	
ENVIRONMENTAL	Protection	IP67	
	Operating Temperature	-40℃~65℃	
	Storage Temperature	-50℃~85℃	
PHYSICAL	Dimension (H*W*D)	175mm*130mm*86.5mm	
	Weight	2000g	
	Data Connector	LEMO 5pin	
	Connector	TNC female	

► Manufacturers may update parameters at any time, please refer to the latest product information.