

# External Digital Radio DL8635



TOKNAV external digital radio provides reliable data communications for mission-critical applications where a combination of stability and long range are required. The DL8635 radio is the latest fully compatible protocol radio station of TOKNAV. With professional IP67 rating, it is robust and reliable, suitable for various outdoor harsh environment. Its adjustable multiple transmit power can easily achieve stable transmission over long distances of 30KM.



## Characteristic

### Intelligent Serial Baud Rate Identification

The External Digital Radio DL8635 has enabled with intelligent serial baud rate identification 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 Radio and RTK.

### Multi-Operating Mode Identify

It offers surveyors an easy-to-use radio modem that provides dependable performance as either a base, or repeater working with other radio modems in challenging environments. In the store and forward operating mode, Digital Radio receives messages, buffers the received data, and transmits further to another substation.

### Convenient Mobile App Operations

The user programmable Digital Radio also supports the Bluetooth of APP to configure data and updates radio status. Its diagnostic reporting software can realize the built-in reliability monitoring, such as internal temperature, environment status, battery level and channel inspection etc., these features allow users to both anticipate and deal with potential issues efficiently.

### Compatible with Multiple Protocols

Compatible communication protocols of ETALK, TRIMTALK™, TRIMMARK™3, Transparent-EOT, SATEL®

### IP67 Design

Industrial design, solid magnesium alloy shell, in line with IP67 design requirements, safe and reliable.

### Adjustable Multiple Transmit Power

The Radio supports H/M/L three level transmission power(customized), three power levels adjustable from 5W to 28W.



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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 H: (28W) 78W@12V DC Transmit Output Power M: (22W) 60W@12V DC Transmit Output Power L: (5W) 35W@12V DC Sleep State 2W@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 44.5±0.5dBm @DC 12V M: 22W 43.4±0.5dBm @DC 12V L: 5W 37±1dBm @DC12V ±1dB
	RF Power Stability	±1dB
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°C to +65°C
	Storage Temperature	-50°C to +85°C
PHYSICAL	Dimension (H*W*D)	175mm*130mm*86.5mm
	Weight	2kg
	Data Connector	LEMO 5pin
	Connector	TNC female

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

► Equipped with electronic fence system, Toknav's product have area code restrictions. Any issue please contact Toknav or local dealers to verify the specific details.



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