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ACCESSOFY

# **DR35**

**External Data Transmission Radio** 





### **External Digital Radio DR35**

TOKNAV external digital radio provides reliable data communications for mission-critical applications where a combination of stability and long range are required. The DR35 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 DR35 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 35W.

## **SPECIFICATION**

GENERAL		
Frequency	Android 11	
Operating Mode	Transceiver Transmitter Radio Repeater Network Repeater	
Channel Width	4GB RAM + 64GB ROM	
Channels	Micro SD, up to 512GB	
Frequency Stability	<±1ppm	
POWER		
Operating Voltage	9V~16V	
Power Consumption (Typical)	Transmit Output Power H: (35W) 78W@12V DC Transmit Output Power M: (22W) 60W@12V DC Transmit Output Power I: (5W) 35W@12V DC	

MODEM		
Data Rate	4800bps/9600bps/19200bps	
Data Speed of Serial Interface	9600, 19200, 38400, 57600, 115200bps	
Modulation	GMSK/4FSK	

Sleep State 2W@12V DC

TRANSMITTER		
RF Output Power	H: 35W 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℃ to +85℃	
PHYSICAL		
Dimension (H*W*D)	175mm*130mm*86.5mm	
Weight	2kg	
Data Connector	LEMO 5pin	



Connector

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



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