

MODEL 5052RD-K-H

ALERT2 HDR Receiver/Decoder

General Description

The Model 5052RD-K-H Receiver/Decoder receives ALERT2 HDR radio data transmissions from remote sites and provides serial and TCP/IP data output for the base station computer. The Receiver and Decoder are combined in a single desktop enclosure; rack mount brackets are included.

The enclosure should be located near the antenna tower to reduce RF transmission line loss. A lightning arrestor with ground lug (optional) is recommended between the receiver back-panel BNC connector and the antenna. Two front-panel LEDs show when radio signals are received (BIT SYNC) and decoded (FRAME SYNC).

ALERT2 decoder data output is through the back-panel RJ45 network or serial connector, supporting multiple server and client TCP/IP connections in ALERT2 Decoder ASCII and Binary formats. Power is a fused 12 Vdc input from a 5030-PS supply (optional) or 5081-18 battery with 5030-8 charger (optional); a UPS is recommended to prevent data loss during outages. ALERT2 technology licensed from Blue Water Design LLC.

Specifications

General

Enclosure	Desktop with 19 in. rack mount brackets
Size	17 in. x 13 in. x 3.5 in.
Weight	13 lbs.
Operating Temp.	-40 to 60 °C

Radio

ALERT2 RX	Ritron DTX-145, VHF
OP1 (ALERT1 RX)	Ritron DTX-145, VHF
OP2 (ALERT2 TX)	Maxon SD-125V, VHF

Power & Connectors

Power Required	12 Vdc, 3-pin MS male
Fuse	5 Amps
Antenna	BNC male; GPS SMA female
Console	DB9 male
Data	RJ45 female, DB9 female

Data Output

ALERT2	IND Decoder ASCII (port 4200) or Binary (port 4201)
OP1 (ALERT1)	ASCII and Binary (port 2101)
OP2 Input	ALERT2 IND Encoder (port 4202)

Ordering Information

5052RD-K-H	ALERT2 HDR Receiver/Decoder
5052RD-OP1	ALERT1 Receiver/Decoder Option
5052RD-OP2	ALERT2 Transmit Option (includes GPS antenna and cable)
5052RD/RP-K-H	ALERT2 Receiver/Decoder with HDR Repeater Option
5031-18	12 Vdc 18 AmpHr Gel Cell Battery
5030-8	Battery Charger
5030-PS	12 Vdc Power Supply with 3-pin MS connector
5071C-NET-5E	CAT 5e network cable for ALERT2/1 data, 7 ft.
5071C-TM	DB9M-DB9F Serial cable for ALERT2/1 data, 6 ft.