
“ARUBA”

DRE Digital FM Receiver



Your DRE radio provides the following features:

- Receives any standard FM stereo broadcast...worldwide
- Receives DRE Broadcasts on Stations Broadcasting DRE programs
- Superior Digital Audio Quality and Improved Standard FM Audio
- Digital Optical Output....Play digital directly into optical speakers; eliminates noise associated with normal speaker wiring
- USB Port....keeps your radio current as new features/benefits are introduced.
- Download updates over internet.
- Satellite Speaker Accessory Available.
- Stereo Headphone Output
- Conditional Access...Select Radios Receive Private Programming.

Coming in future models:

- MPEG 4 Player....Play your own music library via SD Card

“The Transmitter People”



ENERGY-ONIX

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DRE "Aruba" Receiver

Welcome to the world of DRE Digital Radio. The DRE digital radio employs the most advanced digital technology from Digital Radio Express, Inc. (DRE), a Silicon Valley Company. DRE technology provides radio broadcasters worldwide the opportunity to broadcast simultaneously with the regular FM analog broadcast program multiple digital channels offering superior audio quality, special programs not normally available on regular FM broadcasts and many other new features and benefits not possible with regular FM analog technology. DRE is just that, it provide extra programs and features beyond the single FM program offered today with the regular FM broadcasting technology. The system can be implemented by simply adding the DRE encoder to any standard FM transmitter which can accept an SCA input.

RECEIVER CHARACTERISTICS AND SPECIFICATIONS

Inputs: DC Power Jack (2.1mm)12 volt supply input/ 300mA typical
Antenna Input JackF connector
Smart Card (SC)Reads Cards of ISO Std 7816
Full Size Smart Card
USB Connector Standard Series B USB connector (Updates Only Use at Present)

Aux Input

Outputs: Head Phone Jack
Line Output
Speaker OutputAdditional Speaker Option Available
Fiber Optic Transmit Module ...Conforms to JEITA Std CP-1201

Operating Temperature Range-20° C to +50° C

Antenna Input FM Mode (50 ohm system)3 VSWR max

Receiver Frequency Range

U.S.A. (MHz)87.7 to 107.9

Europe (MHz)87.5 to 108.0

Eastern Europe (MHz)64.0 to 74.0

Japan(MHz)76.0 to 90.0

FM Specifications @ 25° C

Parameter Test Condition

Typical

Sensitivity: RF Input Level for 30dB SINAD 5 dBuV
Delta f = 75kHz

S+N/ N: RF Input Level =30dBuV 60dB

Selectivity: Desired Frequency=26dBuV, delta f =75kHz 30dBuV
Audio = 1kHz, delta carrier = ±200kHz

THD + N: RF Input = 60dBuV - 55dB
Delta f = 75kHz
Audio = 1kHz



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