

ECLIPSE



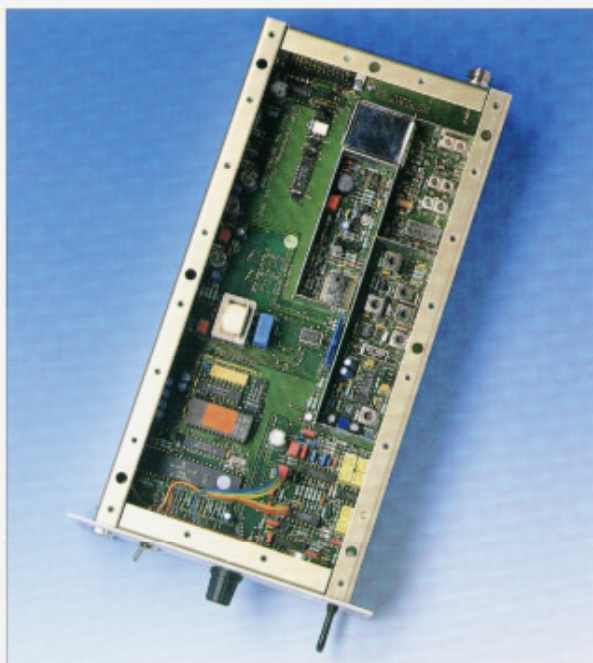
Base Station/Repeater System

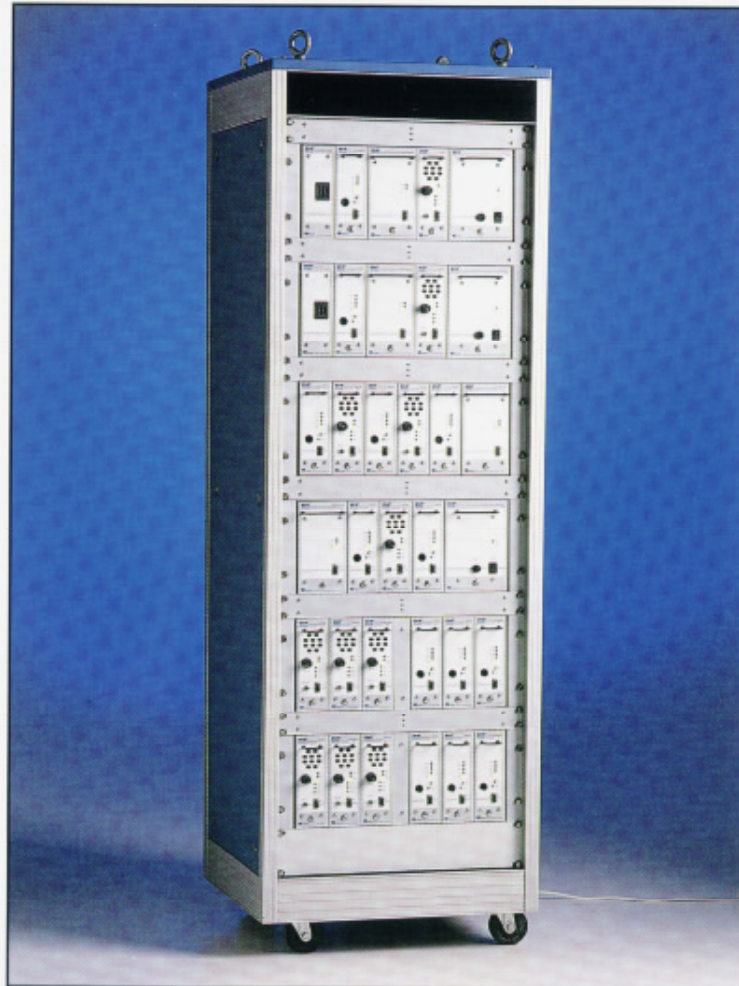
RF Technology

The **ECLIPSE** range is a totally new state of the art Base Station/Repeater system. Following an extensive survey of user requirements, high reliability and superb performance were combined with many unique features to produce a superior, user friendly product.

Features and Advantages

- Exceptional systems performance.
- Modular construction with independent Receivers and Transmitters. This allows split RX and TX racking for convenient connection to multicouplers etc.
- Easily configured for Duplex, Simplex, Trunked or Linked applications.
- High Power Exciters can be used alone for 1-25 watt applications.
- Separate High Power Amplifiers can be added for 25-150 watt output.
- Transmitter power adjustable over a wide range to meet local licensing requirements.
- Synthesized design with programming by IBM compatible PC through front panel RS232 port on each Receiver and Transmitter.
- 100 channel capacity.
- Individually programmable CTCSS with squelch tail elimination for each channel.
- Programmable processor controlled repeater hang time.
- Internal links for flat or emphasised audio response.
- Wide Receiver and Transmitter frequency spreads.
- The 19" rack module positions can be simply coded to automatically select channel and CTCSS tones.
- All modules mate with readily available D range connectors.
- DCS compatible without modification.
- Direct FSK data transmission options are available for paging and data link applications.
- Balanced 4 wire 600 Ohm and Unbalanced audio I/O.
- Separate sub-audible ports allow tones and data to be repeated without regeneration, or for easy connection to tone panels.
- Isolated DC loop for PTT and COR functions.
- Built in diagnostics of: low supply voltage, power out, reverse power, receive signal strength, VCO voltage, channel information, squelch open/close, CTCSS, noise and carrier squelch.
- Remote monitoring, channel change and programming through RS232 port.
- Front panel display of alarm functions.
- System monitoring and service made easy with "TechHelp" software.
- 20 msec TX/RX for efficient data transmission.
- Carrier adjustable squelch from -140 to -70 dBm.
- Low signal alarm adjustable -140 to -70 dBm for links etc.
- Signal strength adaptive noise squelch virtually eliminates squelch tail on signals over 2 uV.
- Operational over temperature range -30° C to +60° C.
- Automatic protection with power reduction at high VSWR and temperature.
- All external preset controls are multi-turn potentiometers.
- Simulcast and Voting compatible.
- Monitor speaker included in Receiver.
- All modules operate from 13.8 Vdc (nominal 12v) supply.
- Fully rated linear Power Supply available.





RF Technology Pty. Ltd.