



## **PRAMS Radio Voice link**

### **System Description**

The Private Radio Audio Monitoring System (PRAMS) provides full duplex operation of a UHF/VHF/MF radio over an IP wide area network connection. The system comprises the following components:

#### **Main Site:**

- Desktop Centro Controller c/w PSU
- IP Modem
- E&M Analogue Voice Interface Module

#### **Sub Site:**

- PRAMS Equipment Housing
- UHF/VHF 4 Channel Radio c/w Antenna
- Echolink Voice/Switching Interface Unit
- IP Modem
- E&M Analogue Voice Interface Module

As described the PRAMS system provides full duplex operation of private business radio (PBR) equipment at a remote location. The Centro Controller is a desktop telephone type unit with Private handset or on-hook Speakerphone monitoring and PTT facilities. Voice traffic from the PBR is routed via an interface module to provide circuit switching. This minimises network bandwidth loading by only generating IP traffic on receipt of received traffic.

The PBR audio is routed to an E&M voice interface module on the IP Modem that is configured to a static IP connection at the remote destination.

A standard RJ-45 LAN port on the IP Modem connects directly to the local network hub point.

Voice traffic is received on the remote IP Modem and routed to the Centro Controller for presentation. The Centro Controller effectively operates as a remote microphone and speaker off the remote UHF/VHF radio.

The remote PRAMS unit is a desktop mounting unit fully configured mains powered unit with its own antenna and interface connection to the local area network.