



Wireless IP Intercom & PA System Mining

Kalgoorlie, Western Australia

CASE STUDY

Project

Wireless IP Intercom
& PA System

Location

Kalgoorlie, Western Australia

Date completed

2011

Equipment Supplied

1 x AlphaCom XE 7
4 x Desk/Wall IP Master Station
1 x Cabinet with 60 Watt Amplifier
and Power Supply
6 x IP Heavy Industrial Master
Station
2 x Flush Mount IP Master Station
4 x Rotating Light
30 x External Horn Speakers
4 x Internal Speakers

Status

Complete

The Challenge

A brown field installation, the mining site required that this project make full use of existing fibre networks to all control rooms, and in the case of remote sites, using point to point wireless links.

The Solution

STENTOFON's AlphaCom E7 intercom system was installed at the site, along with seven heavy industrial wireless IP intercom stations, mounted in stainless steel enclosures. In order to make this possible a site wireless analysis was conducted to determine the correct placement of access points. Signal strength readings were also taken to determine the correct antenna to deploy. STENTOFON's Australian made wireless expansion board allows the standard IP intercom to have a wireless option.

Along with these main systems, all power supplies, amplifiers and antennae were also supplied, resulting in a robust remote intercom and paging solution that utilises up to four DNH 15W horn speakers for audio distribution. Internal spaces are served by IP Desk Master stations and IP Flush Master stations, along with their respective amplifier and power supply cabinets mounted remotely.

The Outcome

This highly flexible PA system can now be accessed from thirteen locations at the site, allowing users to:

- group by local station for production messages
- page site wide for broadcasting
- place point to point calls
- page and locate staff
- make emergency calls to the gatehouse
- loudspeaking full duplex conferencing.

The result is a wireless IP intercom and PA solution that required no additional cabling to be dug in for installation.

