TB8100 Base Station – Ethernet Connectivity

Introduction

The innovative TB8100 base station/repeater is now available with Ethernet connectivity, enabling IP management of your communications system.

Ethernet Connectivity

Many radio sites now offer management level IP connectivity based on microwave site linking. The TB8100 with Ethernet connectivity provides a cost-effective IP based radio management interface.

The Ethernet System Interface enables the TB8100 to integrate into IP networks, enhancing the remote monitoring and diagnostics capabilities of the base station, and reducing your site and maintenance costs.

Features

The TB8100 base station can be remotely monitored, configured, controlled and the firmware upgraded via the IP interface. This interface also supports Computer Controlled Interface (CCI) commands, ideal for system integrators.

You can access a TB8100 anywhere on your IP network simply by using the Ethernet port on your Service Kit PC.

The Ethernet TB8100 sends industry standard 'syslog' TCP-IP messages to a Syslog daemon.

The Syslog daemon can then translate the message into an email notification, meaning you can monitor and manage your microwave links and base stations across the same IP infrastructure. Using 'syslog' means alarm notification can be integrated into your own management system.

The Ethernet System Interface has both an RJ45 Ethernet connection and an enhanced 15-way D-range. Link selectable radio interface signals include balanced and unbalanced audio, E&M, four bi-directional I/O lines, Rx gate, Tx key, coax relay and RSSI.

The TB8100 Ethernet System Interface is designed for use with all TB8100 base station systems, including paging, TaitNet trunking and TaitNet QS² Simulcast.

Because this interface connects directly with the TB8100 Reciter, there is no need for additional rack space. It is compatible with the installed base of TB8100s – you can upgrade your existing equipment if required by removing the existing Systems Interface (SIF) and adding the Ethernet SIF.

Benefits

The main benefits of Ethernet connectivity on the TB8100 are reduced system and maintenance costs, and additional remote control capability.

Site cost and support requirements are reduced by using IP networking technologies to more efficiently communicate with the base station.

Reduced System Costs

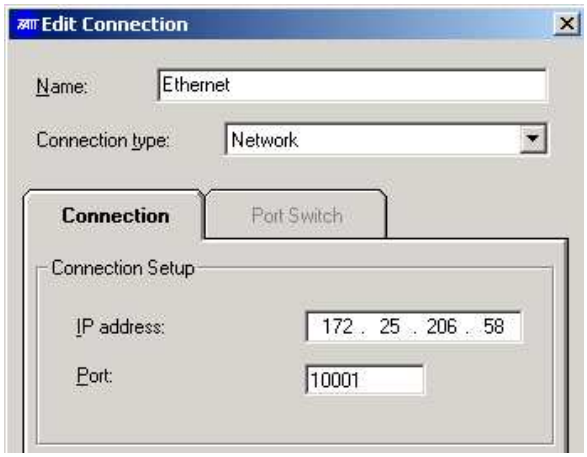
Because the TB8100 Ethernet System Interface connects the base station directly to your IP network, a third party modem is not required. The IP connection provides a single communication path for site management and support.

For sites with two or three channels, the use of Asynchronous Port Switches to provide multi-channel connectivity could be considered expensive. The TB8100 with Ethernet System Interface provides an integral solution at a reduced cost.

Reduced Maintenance Costs

With Ethernet connectivity, the TB8100 can autonomously report alarms without the need for an Alarm Reporting software license – meaning there is no need for maintenance staff to dial into or visit sites to check on base station status.

Eliminating the need for third party modems means less equipment to maintain.



Remote Control Capability

CCI over Ethernet makes connection to the TB8100 with a control application easier for system integrators, and simplifies integration. The overall solution is more cost-effective in terms of development, integration and support.