



ISO 9001 Certified

Date: July 28 , 1998

FCC
C/O
ECLabs
Chris Byleckie

Dear sir,

Our spread spectrum radio system constitutes a very flexible system that provides mobile/portable real time transaction processing typically required for order processing in a warehouse environment. The models consist of an access point (9150), two vehicle (usually fork lift) mount terminals, and a hand held portable terminal (7035).

The 9150 access point is used to provide the base functions of the radio link. These units are always professionally installed usually in a two step process. The first step, which may be omitted for a small site, consists of the "field service" personnel going to the customers' site and performing a "site survey". This site survey uses our portable terminals configured with specialized software with the radios that are to be installed. The results of the site survey are then used to determine the type and quantities of equipment, interface requirements and where to locate the base antenna(s) to adequately cover the customer's site.

The second step is for the field service personnel to install the equipment by making the hardwired connections to mainframe and power source, making the hardwired connections between the system network controller and the 9150 and to connect the base antenna(s) to the 9150 in the location(s) indicated by the site survey. Whether or not the site survey was performed, the system is then tested for coverage by taking the handheld or mobile units to the edges of the sites to check for fringe coverage. Also at this time the system parameters are set and optimized for the customer's unique configuration. Once again, since this unit is always installed by professionally trained Teklogix personnel, no instructions are provided to the customer.

From the above you can see that there is a lot of effort expended by our trained field service personnel that would be impossible for a customer to do for themselves. A major portion of the installation process is the fine tuning of the system, that would be impossible for the customer to do themselves.

**2100 Meadowvale Boulevard
Mississauga, Ontario
Canada L5N 7J9
Phone: (905) 813-9900
Fax: (905) 812-6301**



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We pride ourselves in not just providing a system we provide an RF solution. What we mean by this is that we go to the customer site and provide a seamless transition from their present mainframe or data network system to one that uses the same original equipment and software. Our RF system appears as additional terminal emulating the terminals presently in their system.

The antennas installed on the portable, and mobile equipment only come in one flavour which is 1/4 wave and will use a reverse thread SMA style connector. The portable terminals will have these antennas connected directly to the terminal while the mobile terminals will typically use a mag mount base with the appropriate reverse thread SMA connectors.

However the 9150 antenna system would hardly ever have the luxury of using unique connector mag mount base due to the logistics of locating the antenna high up in the rafters of the warehouse and carefully located to provide the maximum coverage. Typically then we have to provide a coaxial cable of standard length (25' OR 50' of LMR 400 cable) routed from the 9150 to the base antenna. This base antenna could be one of two styles 5/8 over 5/8 over 1/4 wave indoor or outdoor (all configuration result in a system EIRp of under 0dBw).

Due to the nature of our system (providing a large area of coverage) there would be no advantage of the customer using a higher gain antenna because he would lose the omnidirectionality required for our system (we are not a point to point but a point to multipoint environment where the area of coverage not distance is important).

Since our system must always be professionally installed by our trained field service personnel, we feel that the 9150 portion of our system be deemed "must be professional installed". Therefore the unique antenna connector clause of the part 15 requirement would not be applicable.

Please accept our gratitude in advance for your prompt handling of this matter.

Sincerely,

S.D.
Sada Dharwarkar, P.Eng.
Supervisor, Approvals
TEKLOGIX INC.

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