

SECURING DATA TRANSMISSIONS IN THE INFORMATION AGE

NorTel Networks

Established more than a century ago, Nortel Networks has participated in major developments in the evolution of communication network technology worldwide. NorTel employees currently deliver networking and communications services and infrastructure in more than 150 countries, including established carriers, new network operators, leading wireless service providers and enterprises.



Secure Access Control

Information exchanged between networked computers is vulnerable to interception and tampering. NorTel wanted to develop a product to protect data transmissions in wide area networks by encrypting information before it is sent and decrypting it on the receiving end. They also wanted to ensure that only authorized users could access the equipment. Their goals were to:

- ✓ counter the vulnerability of wide area networks
- ✓ provide an easy-to-use product
- ✓ provide a better method of access control

The Solution is Key

The Datakey Electronics' memory Key system relieves users of the need to memorize personal identification codes and enter them via a Keypad. It allows users to carry a single Key for access to both restricted and unrestricted areas. In addition, the Key can be reprogrammed with new identification data as often as the security manager deems necessary. This makes it possible to support tougher security policies. It also eliminates the need to issue a new Key whenever a



user's access privileges change. If a Key is lost, it's easy to program the device to no longer accept that Key.

Fully-Engineered



The Key inserts into a high-cycle (200,000 insertions minimum) mating Keyceptacle®. Datakey Electronics' KC4210PCB Keyceptacle provides intuitive operation, positive Key retention and an ergonomic "click" into position to offer tactile

confirmation when a Key is inserted and turned. There is also a LOFO contact that may be used to protect the host bus by ensuring the Key has made secure contact with the receptacle before any signals are transmitted. The system also features an easy to use Reader/Writer that connects to a PC.





They Chose Datakey Electronics

NorTel turned to Datakey Electronics to add the additional piece of access security their customers needed. NorTel's encryption module installed at each node in the network performs the encryption/decryption function for that terminal or host computer and Datakey Electronics memory Keys provide electronic access control for these encryption modules. Additional features that make the Key well-suited for this application are its ruggedness and reliability in all environments. In addition, its small size and simple interface were essential for use in this desktop unit.



Phone: 952-746-4066 • Toll-free: 1-800-328-8828
Fax: 952-746-4061 • Toll-free: 1-866-289-4212
SALES: Ext. 348 • ENGINEERING: Ext. 336
info@datakeyelectronics.com • www.datakey.com