

5-3558-EX-1998

NORTEL

Wireless Networks

October 1, 1998

Mr. Carl Huie
Federal Communications Commission
Experimental Radio Service
P. O. Box 358320
Pittsburgh, PA 15251-5320

Sent via FAX 202-418-1918

RE: MODIFICATION AND RENEWAL to Special Temporary Authorization
File No. S-3207-EX-98 Call Sign KS2XAN
Modification to add frequencies

27.5-28.55 GHz
Northern Telecom, Inc., hereinafter referred to as "Nortel", wishes to modify its STA, File number S-3207-EX-98, Call Sign KS2XAN (copy of license attached hereto as "Exhibit 1") to include frequencies 27.8175 GHz and 28.2275 GHz to operate **Nortel's Reunion** product. Authority is requested for designated **territories of the Continental United States and Its Possessions**. Nortel is requesting this STA per the requirements and guidelines set forth in 47 CFR §5.55 and §5.56.

Name and Address:

Kimberly Alexander
Licensing & Research Specialist
Nortel
2221 Lakeside Blvd., MS 991/14/A30
Richardson, Texas 75082
Phone: (972) 684-7004
Fax: (972) 685-3478

The modified STA is required for demonstrations of broadband wireless technology to accommodate Field Trials, technical demonstrations of equipment or techniques and for demonstrations of equipment to prospective purchasers for proposed stations in existing service by persons engaged in the business of selling radio equipment. This will be a point to point service between two Nortel facilities here in Richardson, Texas. Nortel has the permission of the Licensee to operate on these frequencies. This will be used for field trials only to customers and distributors and not offered for sale.

The class of station is Fixed/Base, the Call Sign is to be assigned by the FCC, and the nature of service is Telephony, Video and Data transmission.

Antennas will not extend more than 6 meters above the ground, nor will it extend more than 6 meters above a building.

The equipment is to be used for demonstrations at various locations using 1 unit of Nortel's Reunion product. A product description is attached hereto as Exhibit "2". Below is the frequency, power, type and bandwidth information requested:

Frequency:	27.8175 GHz
	28.2275 GHz
Max. ERP from antenna:	+17dBm
Emission:	6M00D7W
Modulating Signal:	16QAM
Bandwidth:	+/- 2.5 MHz

The duration of the Modified Special Temporary Authorization is proposed and needed for a **six-month period beginning October 7, 1998.**

Please call me at (972) 684-7004 in the event you should have any questions concerning this Application. The original of this Application and fee processing form with credit card payment, has been sent by express courier to the FCC c/o The Mellon Bank, 3 Mellon Bank Center, 27th Floor, Room 153-2713, 525 William Penn Way, Pittsburgh, PA 15259-0001, Attn: Wholesale Lockbox Shift Supervisor, Phone: (412) 234-5494.

Please FAX the Modified Special Temporary Authorization to me at (972) 685-3478. A copy of the original will then be forwarded to Mr. Raymond L. Strassburger, Director of Government Relations, Telecommunications Policy, Northern Telecom, Inc., 801 Pennsylvania Avenue, NW, Suite 700, Washington, D.C. 20004, Phone (202) 347-4610, as well as all appropriate parties involved with field trial demonstrations.

Your assistance on such short notice is greatly appreciated.

Very truly yours,



Kimberly Alexander
Licensing & Research Specialist
Wireless Networks
2221 Lakeside Blvd., MS 1414
Richardson, Texas 75082

cc: Ray Strassburger, Nortel
Ken West, Nortel

"Exhibit 1"

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL
(Nature of Service)

KS2XAN
(Call Sign)

XD MO
(Class of station)

9-3207-EX-98
(File number)

NAME NORTHERN TELECOM. INC.

nationwide
(Location of station)

Special Temporary Authority is hereby granted to operate the radio transmitting apparatus described below:

Frequency (GHz)	Authorized Power (ERP)	Emission Designator
24.253	630 mW	6M00D7W
25.053	630 mW	6M00D7W
25.059	630 mW	6M00D7W
38.75-38.95	630mW	6M00D7W
39.45-39.5	630mW	6M00D7W
Purpose of Operation: Demonstration of equipment.		

approved by Carl
Hue, FCC (202)
418-2430
4-22-98

Special Conditions: (see page 2)

This special temporary authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This special temporary authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control by the Government of the United States conferred by Section 706 of the Communications Act of 1934.

This authorization effective March 23, 1998 and
will expire 3:00 A.M. EST. September 23, 1998

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"Exhibit 1"

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KS2XAN

Special Conditions:

1) Operations within 80 km radius of 38-47-17 NL, 76-52-48 WL (Camp Springs, MD) and 40-42-00 NL, 74-09-59 WL (Newark, NJ) are subject to prior coordination with FAA Eastern Regional Office, JFK International Airport, New York 11430, Attn: Frequency Management Office. Phone (718) 712-8343.

2) Prior to equipment authorization or a determination of compliance, these devices must be accompanied by a conspicuous notice worded as follows:

"This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."

"Exhibit 2"

4T1/8T1 Microwave Radio

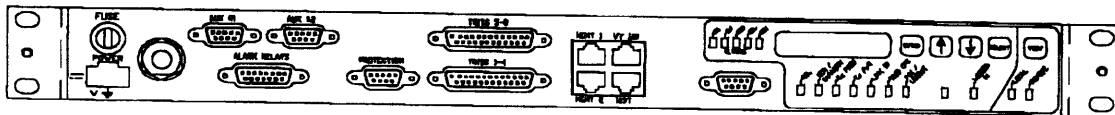
Innova's state of the art XP4 Series of Microwave Radios includes a software selectable, 4T1 or 8T1 data rate radio, available in all frequency ranges. The 4T1/8T1 radio sets the standard for a low cost / high reliability design with a proven system architecture. The common IDU, independent of ODU frequency, provides a simple keypad to configure and control the link. Available options include 1+1 Protection, SNMP Network Management, and Automatic Transmit Power Control (ATPC).

Features

- Single 1RU height 4T1/8T1 Indoor Unit
- Single 1RU height 1+1 Protected Unit
- Frequency Diversity, Space Diversity, and Hot Standby Modes supported
- Two Service Channels
- Simple Front Panel Commissioning Procedure
- Common System Architecture with XP Series Product Line
- SNMP Network Management Card (Optional)
- Automatic Transmit Power Control (Optional)

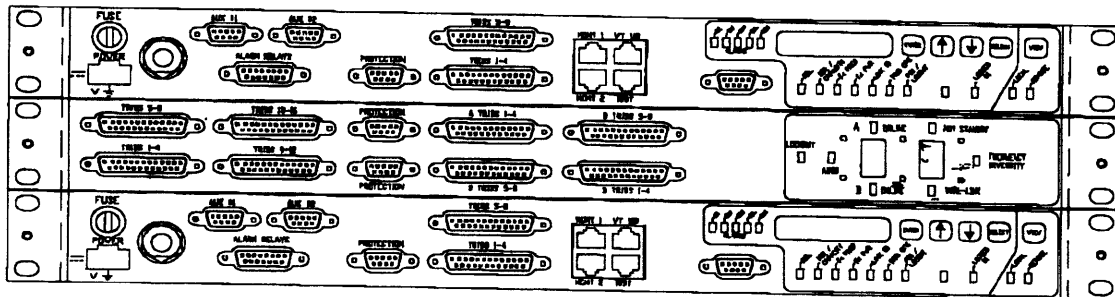
General

The basic 1+0 4T1/8T1 is a 1RU Indoor unit with DB25 Connectors for balanced tributary connection;



4T1/8T1 IDU

To convert a 1+0 4T1/8T1 to a 1+1 4T1/8T1, add a Switch unit (SU) and a second identical 1RU 4T1/8T1 Unit;

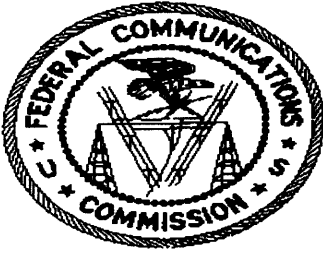


1+1 4T1/8T1 IDU Configuration

FACSIMILE MESSAGE

FACSIMILE MESSAGE

FACSIMILE MESSAGE



**FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF ENGINEERING AND TECHNOLOGY**

2000 M STREET, N.W., SUITE 230
WASHINGTON, D.C. 20554

December 2, 1998 10 24 am

FROM: Carl Huie

Telephone: (202) 418-2430
Fax #: (202) 418-1918

TO:

Name: Kimberly Alexander
Organization: NORTEL, WIRELESS NETWORKS
Telephone: (972) 684-7004 x
Fax #: (972) 685-3478

This cover sheet is page 1 of 3 pages

COMMENTS:

Authorization in mail to Strassburger.