

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL
(Nature of Service)

K A 2 X T F
(Call Sign)

XE FX & MO
(Class of station)

S-2694-EX-96
(File number)

NAME InterDigital Communications Corporation
King of Prussia, PA - NL 40-06-02; WL 075-23-58
(Location of station)
MOBILE: Within 24 km of King of Prussia

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

Frequency (MHz)	Authorized Power (watts)	Emission Designator	Class of Station
360.025 - 370.000	20 (ERP)	20K0G1E	FX
370.025 - 380.000	20 (ERP)	20K0G1E	MO
380.025 - 390.000	20 (ERP)	20K0G1E	FX
390.025 - 399.900	20 (ERP)	20K0G1E	MO

Purpose of Operation: Conduct propagation and path loss measurements on Basic Exchange Telecommunication Radio Service equipment that is being developed for export.

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 December 18, 1996 and
will expire 3:00 A.M. EST. March 18, 1997



S-2694-EX-96

InterDigitalTM

October 21, 1996

Richard G. Saunders
Vice President-General Manager
Customer Support
InterDigital Communications Corporation
781 Third Avenue
King of Prussia, PA 19406-1409
Tel: (610) 878-5668
Fax: (610) 878-7885

Mr. Paul Marrangoni, Chief
Experimental Licensing Branch
New Technology Development Division
Office of Engineering and Technology
Federal Communications Commission
2000 M Street, NW
Washington, DC 20554

OK per HFW 12/17/96
DJ

Subject: Request for Special Temporary Authorization

Dear Mr. Marrangoni:

InterDigital Communications Corporation, 781 Third Avenue, King of Prussia Pennsylvania, 19406-1409 ("InterDigital") respectfully requests a 90 day special temporary authorization, commencing December 16, 1996 and ending March 14, 1997 for experimental station KA2XTF, King of Prussia, Pennsylvania to conduct tests using InterDigital's Basic Exchange Telecommunications Radio Service ("BETRS") UltraPhone equipment on the following frequencies:

Frequency MHz	Power (Watts)				Emission	Modulation	Necessary Bandwidth	
(A)	(B)	(C)	(D)		(E)	(F)	(G)	
	BS	SS	BS	SS	BS	SS		
360.025 -370.000 FX	2		20		Mean	20KOG1E	64 KBPS	20 Khz
370.025 -380.000 MO		2		20	Mean	20KOG1E	64 KBPS	20 Khz
380.025 -390.000 FX	2		20		Mean	20KOG1E	64 KBPS	20 Khz
390.025 -400.000 MO		2		20	Mean	20KOG1E	64 KBPS	20 KHz

399.9-400.0 is satellite worldwide

Frequency Tolerance: $\pm 0.005\%$

Except for use of the above frequencies, the equipment to be tested is the same as that currently being tested under experimental license KA2XTF at King of Prussia.

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Those frequencies are required to test equipment that is exported to foreign countries which operate InterDigital's UltraPhone equipment on those frequencies.

The equipment is the UltraPhone 100 Digital Radio-Telephone System, designed to provide telephone service between individual subscribers and a central office. The service employs advanced digital voice coding and signal processing to allow four simultaneous conversations per each radio frequency pair.

The Test Location is:

	<u>No. of Units</u>
FX: King of Prussia, PA Lat: 40° 06' 02" N Long: 75° 23' 58" W	1
MO: Within 24 Km radius of fixed location.	14

Height of base station antenna above ground: 15.2 Meters

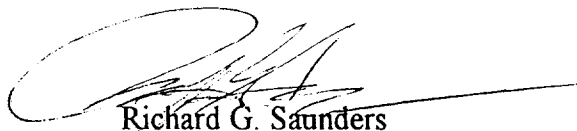
The purpose of the equipment tests is to conduct propagation and path loss measurements to determine the viability of providing Basic Exchange Telecommunications Radio Service with InterDigital's UltraPhone equipment at various geographic locations in the world.

If questions arise, please contact Don Hymas of InterDigital at (610) 878-5632.

Exhibit 1, Anti-Drug Abuse Certification is attached.

We request that this application be granted prior to December 16, 1996 in order to avoid interruption in the on-going experimentation.

Sincerely,



Richard G. Saunders

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EXHIBIT I

Anti-Drug Abuse Certification

The applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal radio license benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a), or, in the case of a non-individual applicant (e.g. a corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal radio license benefits pursuant to that section. For these purposes, a "party" is defined under 47 CFR 1.2002(b).

A handwritten signature in black ink, appearing to be "J. H. Smith", written over a horizontal line.

Date

10/21/94

S-2694-EX-96

Q/MELLON OCT 23 1996

LAW OFFICES
GINSBURG, FELDMAN AND BRESS
CHARTERED
1250 CONNECTICUT AVENUE, N.W.
WASHINGTON, D.C. 20036
TELEPHONE (202) 637-9000

Hand 12/16/96

CORRESPONDENT OFFICE
9, RUE BOISSY D'ANGLAS
75008 PARIS, FRANCE

RODNEY L. JOYCE
(202) 637-9005

October 23, 1996

TELECOPIER (202) 637-9195
TELEX 4938614

BY COURIER

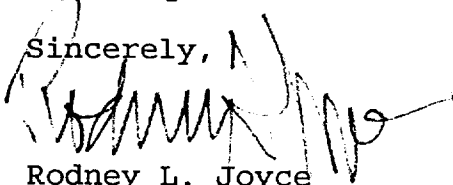
Mr. William F. Caton
Acting Secretary
1919 M Street, N.W.
Federal Communications Commission
Washington, D.C. 20554

Re: InterDigital Communications Corporation
Experimental Authorization KA2XTF
Request for Special Temporary Authority

Dear Mr. Caton:

On behalf of InterDigital Communications Corporation ("InterDigital"), I enclose an original and two copies of a request for Special Temporary Authority (STA) to test equipment on frequencies prior to obtaining permanent authority to experiment on those frequencies. I am filing simultaneously under separate cover an application for authority to operate on the same frequencies under experimental license KA2XTF. Enclosed with this STA request is a check to cover the required filing fee.

Please call me if you have questions.

Sincerely, 

Rodney L. Joyce
Counsel for InterDigital Communications
Corporation

Enclosure

cc Don Hymas

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1250 CONNECTICUT AVENUE, N.W.
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75008 PARIS, FRANCE

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(202) 637-9005

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TELEX 4938614

March 18, 1997

BY COURIER

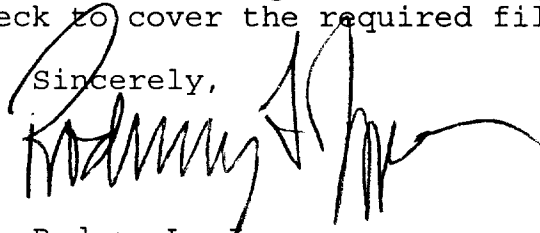
Mr. William F. Caton
Acting Secretary
1919 M Street, N.W.
Federal Communications Commission
Washington, DC 20554

Re: InterDigital Communications Corporation
Experimental Authorization KA2XTF
Request for Extension of Special Temporary Authority
(File No. S-2694-EX-96)

Dear Mr. Caton:

On behalf of InterDigital Communications Corporation, I enclose the original and two copies of a request for extension of the Special Temporary Authority granted December 18, 1996 to test equipment on certain specified frequencies prior to obtaining an experimental license to conduct such testing on those frequencies. Also enclosed is a \$45.00 check to cover the required filing fee.

Sincerely,



Rodney L. Joyce

Enclosure

cc: Paul Marrangoni (w/enc.) (by hand)
Franklin Wright (w/enc.) (by hand)