



Department of State.

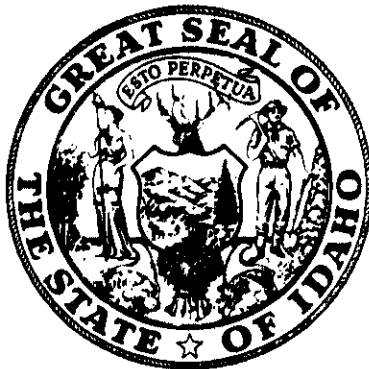
**CERTIFICATE OF AUTHORITY
OF**

AMPEX DATA SYSTEMS CORPORATION

I, PETE T. CENARRUSA, Secretary of State of the State of Idaho, hereby certify that duplicate originals of an Application of AMPEX DATA SYSTEMS CORPORATION for a Certificate of Authority to transact business in this State, duly signed and verified pursuant to the provisions of the Idaho Business Corporation Act, have been received in this office and are found to conform to law.

ACCORDINGLY and by virtue of the authority vested in me by law, I issue this Certificate of Authority to AMPEX DATA SYSTEMS CORPORATION to transact business in this State under the name AMPEX DATA SYSTEMS CORPORATION and attach hereto a duplicate original of the Application for such Certificate.

Dated **December 10, 1990**



Pete T. Cenarrusa

SECRETARY OF STATE

Corporation Clerk

APPLICATION FOR CERTIFICATE OF AUTHORITY

(Profit Corporation)

To the Secretary of State of Idaho

Pursuant to Section 30-1-110, Idaho Code, the undersigned Corporation hereby applies for a Certificate of Authority to transact business in your State, and for that purpose submits the following statement:

1. The name of the corporation is Ampex Data Systems Corporation
2. The name which it shall use in Idaho is _____

(To be used only when required to avoid a conflict with a name already on file. Must be accompanied by a Board of Directors resolution adopting assumed name in Idaho.)

3. It is incorporated under the laws of Delaware
4. The date of its incorporation is January 18, 1990 and the period of its duration is perpetual

5. The address of its principal office in the state or country under the laws of which it is incorporated is 32 Lookerman Square, Suite L100, Dover, DE 19901

6. The address to which correspondence should be addressed, if different from that in item 5. 401 Broadway - M/S 3-36, Redwood City, CA 94063-3199

7. The street address of its proposed registered office in Idaho is 300 North 6th Street
Boise, Idaho 83701, and the name of its proposed registered agent in Idaho at that address is CT CORPORATION SYSTEM

8. The purpose or purposes which it proposes to pursue in the transaction of business in Idaho are:
Design, manufacture and sale of instrumentation and
computing memory devices.

9. The names and respective addresses of its directors and officers are:

Name	Office	Address
<u>See attached rider</u>	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(continued on reverse)

November 1, 1990

AMPEX DATA SYSTEMS CORPORATION
Officers of the Corporation

<u>Name</u>	<u>Title</u>	<u>Address/SS#</u>
Robert L. Atchison	President	401 Broadway Redwood City CA 94063 378-34-6490
Allen L. Conrad	General Manager	401 Broadway Redwood City CA 94063 136-30-2004
Melinda M. Cox	Assistant Secretary	401 Broadway Redwood City CA 94063 571-82-8387
Robert W. Harper	Vice President and Corporate Controller	401 Broadway Redwood City CA 94063 136-44-0468
William B. Heye, Jr.	Vice Chairman	401 Broadway Redwood City CA 94063 449-54-0719
Cherrie L. Jurado	Assistant Treasurer	401 Broadway Redwood City CA 94063 559-21-8574
Lynn B. King	Vice President	401 Broadway Redwood City CA 94063 409-70-2148
Leslie E. Schenk	Vice President and Treasurer	401 Broadway Redwood City CA 94063 117-42-4125
Peter P. Severson	Assistant Secretary	401 Broadway Redwood City CA 94063 160-28-0887
Joel D. Talcott	Vice President and Secretary	401 Broadway Redwood City CA 94063 351-34-6789
Judith Vitha	Assistant Secretary	280 Park Avenue New York NY 10017 106-48-8996

November 1, 1990

AMPEX DATA SYSTEMS CORPORATION
Members of the Board of Directors

<u>Member</u>	<u>Secretary</u>	<u>Address and SS#</u>
ATCHISON, Robert L.	Denise Dunlap (415) 367-2291	401 Broadway Redwood City CA 94063 378-34-6490
BRAMSON, Edward J.	Joan Kane (212) 759-6301	65 E. 55th St., 26th Floor New York NY 10022 537-72-3404
HEYE, William B., Jr.	Gail Cooper (415) 367-3515	401 Broadway Redwood City CA 94063 449-54-0719
RITCHIE, Ronald J. Chairman	Caryl Britton (415) 367-4117	401 Broadway Redwood City CA 94063 466-64-5543



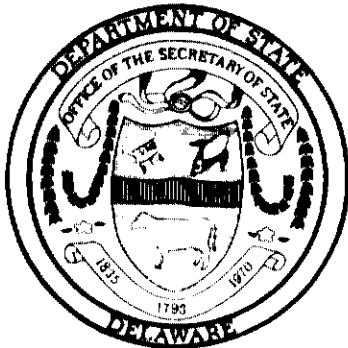
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Office of Secretary of State

I, MICHAEL HARKINS, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY AMPEX DATA SYSTEMS CORPORATION IS DULY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL CORPORATE EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE DATE SHOWN BELOW.

AND I DO HEREBY FURTHER CERTIFY THAT THE FRANCHISE TAXES HAVE BEEN PAID TO DATE.

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Michael Harkins
Michael Harkins, Secretary of State

AUTHENTICATION: 12871308
DATE: 11/30/1990