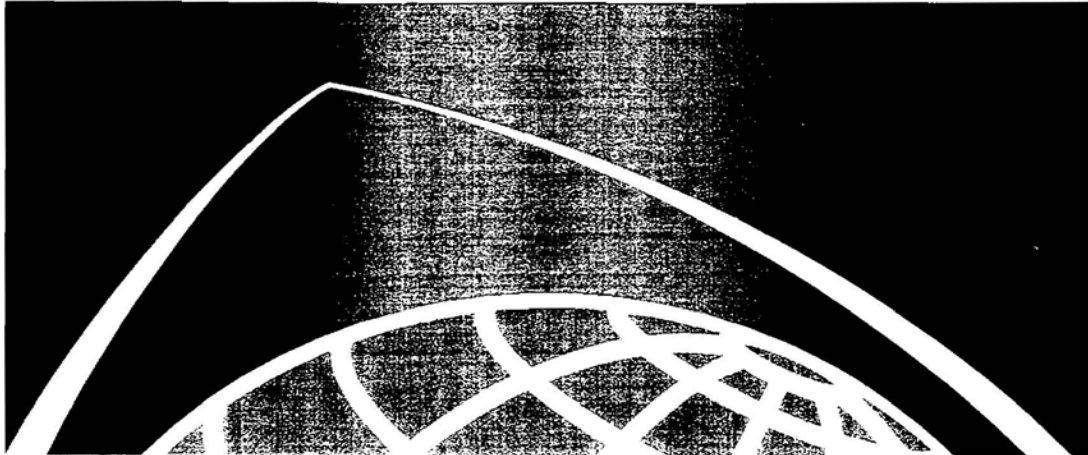


Globalstar™



**Globalstar User Terminals
(Portable, Mobile, Fixed)
Regulatory Approval
Letters, Certificates and
Declaration Documents**

MH80-98863-1 X5

**SPECIAL EDITION!
GSP-1600 ONLY**

QUALCOMM®

Company QUALCOMM Inc.	Equipment Globalstar User Terminals
Document Regulatory Approval Letters, Certificates & Declaration Documents	Page Number 3

MANUFACTURER

QUALCOMM Incorporated

5775 Morehouse Drive,

San Diego, California,

92121-1714

USA

Tel: 858 587-1121

REGULATORY ENGINEERING SPECIALIST

Paul Guckian

Director, Engineering

EMC & Regulatory: Globalstar Project

Location: QUALCOMM Incorporated Building R, Office R-202L

Tel: 858 651 1547

Fax: 858 651 1988

email: pguckian@qualcomm.com



Company QUALCOMM Inc.	Equipment Globalstar User Terminals
Document Regulatory Approval Letters, Certificates & Declaration Documents	Page Number 4

CONTENTS

1. INTRODUCTION.....	6
1.1 Purpose of this Document	6
2. EUROPEAN TYPE EXAMINATION	6
2.1 European Directives	6
3. UNITED STATES OF AMERICA EQUIPMENT AUTHORIZATION ..	7
3.1 Applicable Codes of Federal Regulations.....	7
4. INTERNATIONAL TELECOMMUNICATION UNION (ITU)	7
4.1 ITU Global Mobile Personal Communications By Satellite (CMPCS) Memorandum of Understanding (MoU).....	7
5. INDUSTRY CANADA CERTIFICATION	8
6. BRAZILIAN APPROVALS.....	8
6.1 Anatel: Agencia Nacional de Telecomunicacoes, Republica Federativa do Brasil	8
7. KOREAN APPROVALS	8
7.1 MIC: Ministry of Information and Communication, Republic of Korea.....	8
8. RUSSIAN APPROVALS.....	9
8.1 NIIR: Radio Research and Development Institute	9
9. CHINESE APPROVALS	9
9.1 CIQ SA: China Inspection and Quarantine State Administration	9
10. AUSTRALIAN APPROVALS.....	9
11. CELLULAR TELECOMMUNICATIONS INDUSTRY ASSOCIATION (CTIA).....	9
12. SAFETY CERTIFICATION	10

<small>Company</small> QUALCOMM Inc.	<small>Equipment</small> Globalstar User Terminals
<small>Document</small> Regulatory Approval Letters, Certificates & Declaration Documents	<small>Page Number</small> 5

12.1	European Requirements.....	10
12.2	USA Safety Requirements.....	10
13.	WARNINGS.....	10

Company	QUALCOMM Inc.	Equipment	Globalstar User Terminals
Document	Regulatory Approval Letters, Certificates & Declaration Documents	Page Number	6

1. INTRODUCTION

1.1 Purpose of this Document

This document contains the regulatory certificates and declarations issued against QUALCOMM's Globalstar User Terminals (UT). The user terminals manufactured by QUALCOMM are fixed, mobile and portable satellite earth stations designed for use with the satellite communications network known as "Globalstar™".

2. EUROPEAN TYPE EXAMINATION

2.1 European Directives

The QUALCOMM Incorporated manufactured Globalstar User Terminals (UT) comply with the requirements of the European EMC Directive 89/336/EEC, amended by the Directive 93/68/EEC and the council directive 93/97/EEC supplementing Directive 91/263/EEC in respect of the satellite earth station equipment (the SES Directive). The products were tested at an independent laboratory and found to be compliant with the following technical standards:

EN 300-831 (1998-03). Electromagnetic Compatibility (EMC) for Mobile Earth Stations (MES) used within Satellite Personal Communications Networks (S-PCN).

TBR 041(1998): Terminal Essential Requirements for Mobile Earth Stations (MES) used within Satellite Personal Communications Networks (S-PCN) 1.6/2.4 GHz bands under the Mobile Satellite Service (MSS).

The products were tested at the following laboratory and the results presented to the British Approvals for Telecommunications (BABT) for approval.

TUV Product Services Ltd.
Segensworth Road
Fareham Hampshire
United Kingdom PO15 5RH

The BABT certificates and letters of Approval are contained in Annex A of this document.

The QUALCOMM Incorporated "Declarations of Conformity to Type" are contained in Annex B of this document.

Company	QUALCOMM Inc.	Equipment	Globalstar User Terminals
Document	Regulatory Approval Letters, Certificates & Declaration Documents	Page Number	7

3. UNITED STATES OF AMERICA EQUIPMENT AUTHORIZATION

3.1 *Applicable Codes of Federal Regulations*

The QUALCOMM Incorporated manufactured Globalstar User Terminals (UT) comply with the following sections as referenced in the Federal Communications Commission (FCC) Code of Federal Regulations (CFR) Title 47, Telecommunication:

FCC CFR 47 Part 15 Radiated & Conducted Emissions

FCC CFR 47 Part 25 Satellite Communications Requirements

FCC CFR 47 Part 22 Public Mobile Services (Tri-mode Portable)

FCC CFR 47 Part 2 MPE (Maximum Permissible Exposure) Limits

FCC CFR 47 Part 2 SAR (Specific Absorption Rate) Limits for Handheld Portable

FCC Grant of Equipment Authorization certificates are contained in Annex C of this document.

4. INTERNATIONAL TELECOMMUNICATION UNION (ITU)

4.1 *ITU Global Mobile Personal Communications By Satellite (GMPCS) Memorandum of Understanding (MoU)*

At its 1998 Session the ITU Council adopted Resolution 1116 which, in accordance with the GMPCS-MoU Arrangements, specifically instructs the Secretary General:

- To act as the registry for the type approval procedures
- To act as the registry for terminal types; and
- To authorize the use of the abbreviation ITU in the GMPCS-MoU Mark.

The QUALCOMM Incorporated manufactured Globalstar User Terminals (UT) have met all the requirements of the ITU GMPCS-MoU registry arrangements and are authorized to affix the GMPCS-MoU Mark to all the UT products.

Company QUALCOMM Inc.	Equipment Globalstar User Terminals
Document Regulatory Approval Letters, Certificates & Declaration Documents	Page Number 8

The ITU letter of authorization for each product is contained in Annex D of this document.

5. INDUSTRY CANADA CERTIFICATION

The QUALCOMM Incorporated manufactured Globalstar User Terminals (UT) comply with the following Industry Canada requirements:

Model GCK-1400	RSS-170, Satellite Mobile Earth Stations
Model GSP-1600	RSS-128, 800 MHz Dual-Mode TDMA Cellular Telephones
	RSS-170, Satellite Mobile Earth Stations
Models GSP-2700, GSP-2800	RSS-170, Satellite Mobile Earth Stations

The Industry Canada certificates are contained in Annex E of this document.

6. BRAZILIAN APPROVALS

6.1 *Anatel: Agencia Nacional de Telecomunicacoes, Republica Federativa do Brasil*

The QUALCOMM Incorporated manufactured Globalstar User Terminals (UT) comply with the certification requirements of the Agencia Nacional de Telecomunicacoes.

Anatel certificates are contained in Annex F of this document.

7. KOREAN APPROVALS

7.1 *MIC: Ministry of Information and Communication, Republic of Korea*

The QUALCOMM Incorporated manufactured Globalstar User Terminals (UT) comply with the certification requirements of the Ministry of Information and Communication.

MIC certificates are contained in Annex G of this document.

Company QUALCOMM Inc.	Equipment Globalstar User Terminals
Document Regulatory Approval Letters, Certificates & Declaration Documents	Page Number 9

8. RUSSIAN APPROVALS

8.1 NIIR: Radio Research and Development Institute

The QUALCOMM Incorporated manufactured Globalstar User Terminals (UT) comply with the certification requirements of the Radio Research Development Institute.

NIIR certificates are contained in Annex H of this document.

9. CHINESE APPROVALS

9.1 CIQ SA: China Inspection and Quarantine State Administration

The Globalstar User Terminals (UT) AC-powered accessories comply with the certification requirements of the China Inspection and Quarantine and are CCIB certified. CCIB Certificates are contained in Annex L of this document.

10. AUSTRALIAN APPROVALS

Australian certification records and supporting documentation is excluded from this document, and can be obtained separately.

11. CELLULAR TELECOMMUNICATIONS INDUSTRY ASSOCIATION (CTIA)

The QUALCOMM Incorporated manufactured Globalstar GSP-1600 Tri-Mode User Terminal (UT) complies with the certification requirements of the Cellular Telecommunications Industry Association.

CTIA certificates are contained in Annex I of this document.

Company	QUALCOMM Inc.	Equipment	Globalstar User Terminals
Document	Regulatory Approval Letters, Certificates & Declaration Documents	Page Number	10

12. SAFETY CERTIFICATION

12.1 *European Requirements*

The Globalstar User Terminals and accessories comply with the requirements of the Low Voltage Directive (LVD) 73/23/EEC, amended by the Directive 93/68/EEC and carries the CE marking accordingly. A Declaration of Conformity to EN60950/IEC60950 will be prepared by QUALCOMM Incorporated and included in this document at a later date.

A CB Scheme certificate for the Analog Fixed UT as well as regulatory certificates for various accessories are contained in Annex J of this document.

12.2 *USA Safety Requirements*

The Globalstar Fixed User Terminal and accessories comply with the requirements of UL 1950 and has been assessed and certified by Underwriters Laboratories Inc. and carries the UL mark accordingly. UL Notice of Authorization letters are contained in Annex K of this document.

13. WARNINGS

QUALCOMM Incorporated is not responsible for interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by QUALCOMM Incorporated. The correction of interference caused by such unauthorized modifications, substitution or attachment will be the responsibility of the user.

CAUTION: Changes or modifications not expressly approved by QUALCOMM Incorporated could void the user authority to operate this equipment.



Accredited by the
Dutch Council for
Certification

B A B T

Type Examination Certificate

This certificate is issued to

Qualcomm Inc

of on the date of this certificate

6455 Lusk Boulevard, San Diego
California 92121
USA

to certify that the Digital Terminating Equipment known as

TRI MODE PORTABLE USER TERMINAL GSP-1600

and produced in accordance with

Product Check Agreement BABT/PCR.0629

has been found to comply with the following standard(s)

90/002 S/R2 (based on the supplier's declaration dated 15th December 1998)
CTR 41 as specified in commission decision 98/533/EC

Signed *Alan Bilal*
pp Managing Director J Alves

Certificate Number BABT/99/6883

Date *26th May 1999*

The attached Annex contains one page to be used with this certificate.

Conditions for the validity of this certificate, if any, are listed in the Annex.

This certificate has been issued in accordance with the Type Examination Regulations of the British Approvals Board for Telecommunications (BABT); it is not transferable and remains the property of BABT.

BABT has allocated the following reference number to the terminal equipment: 4SAT.0004

Reference No. 4SAT.0004

Approval No: 610050
Variation No. 0

TERMINAL EQUIPMENT APPROVAL

The British Approvals Board for Telecommunications, pursuant to:-

- (i) its appointment by the Secretary of State under Section 25 of the Telecommunications Act 1984 (hereinafter referred to as "the Act") to exercise the functions conferred on the Secretary of State under Sub-sections 1, 2, 3, 4 and 10 of Section 22 of the Act; or
- (ii) its notification to the Commission under Article 10(1) of EC Council Directive 91/263/EEC,

hereby approves the terminal equipment described in Section A below (hereinafter referred to as "Relevant Equipment") for connection to the public telecommunications network(s) as described in Section A below, subject to the conditions listed in Section B overleaf which must be complied with if this Approval is to apply.

A. Description of Relevant Equipment

TRI MODE PORTABLE USER TERMINAL GSP-1600

as described in Type Examination Certificate Number BAPT/99/6883

supplied by **Qualcomm Inc**

and which

- (a) is manufactured under an approved system for Quality Assurance or is subject to product checks at random in accordance with the Conformity to Type procedure; and
- (b) bears the BAPT Logo; and
- (c) has the following Ports intended for direct or indirect connection to the public telecommunications network(s) described below

<u>Port</u>	<u>Public Telecommunications Network(s)</u>
Antenna	Satellite personal communications networks in the European Economic Area operating in the 1.6/2.4 GHz frequency bands compatible with TBR 41

Signed: *Alan Bilo*
Managing Director,
British Approvals Board for Telecommunications

Date: *24th May 1999*

B A B T

Annex to

TYPE EXAMINATION CERTIFICATE

Relevant Technical Documentation

Supplier's Declarations: 15th December 1998
TBR 41 declarations 6th April 1999
Network operator agreement 6th April 1999

Test report number(s): TZ 605801

User Guide(s): QUALCOMM Globalstar GSP1600 Tri-Mode User Terminal
Document Number 80-98153-1 X1

Approved Software: Revision 4.3

Approved Hardware

Description of Part	Circuit Diagram	Approved Revision Level/date	Bill of Materials/ Parts List	Approved Revision Level/date
Digital Baseband Pass 3, Ethyl Portable Phone	LD20-81403	X1	PL20-81403-3	X1
CCA, ETHYL RF SKETCH	LD20-81545-1	X1	PL20-81545-1	X3

and all subsequent issues of the above relevant technical documentation, hardware and software which have been formally accepted by (or on behalf of) B A B T in accordance with the Type Examination Regulations of the British Approvals Board for Telecommunications.

Signed: *Alan Bits*

Date: *26th May 1999*

Managing Director, B A B T



27th May 1999

Mr Pekka Tarjanne
Secretary General
International Telecommunication Union
General Secretariat
Place des Nations
CH-1211 Geneva 20
Switzerland

Dear Mr Tarjanne

Notification of Approval under GMPCS-MoU

Further to the previous letters from Mr B S Cartman notifying our type approval scheme for S-PCN terminals, I am writing to advise you that the following terminal equipment is approved:

Manufacturer: Qualcomm Inc
6455 Lusk Boulevard
San Diego
California 92121
USA

Product Name: Globalstar Tri Mode Portable User Terminal GSP-1600

Standard: CTR 41 as specified in Commission Decision 98/533/EC

Approval Number: AA610050

Approval Date: 24th May 1999

If there is any further information required about this approval, or if there is a particular format that you wish the notification to be made, I would be grateful if you would let me know.

Yours sincerely

A handwritten signature in black ink, appearing to read "L Rowland".

L Rowland
Team Leader, Test and Evaluation
for Managing Director

Direct Tel: 01932 251254
e-mail: lrowland@babt.co.uk

bcc: Mr P Guckian, Qualcomm Incorporated



6455 Lusk Boulevard, San Diego, California 92121 (619) 587-1121 <http://www.qualcomm.com>

Declaration Of Conformity To Type

Type Of Equipment: Satellite Earth Station Equipment.

Model: Globalstar Tri Mode Portable User Terminal (UT)

Model Number: GSP-1600

Product Description: The equipment is a tri mode portable UT designed for use within the Globalstar Satellite Communications network. The 500 units covered by BABT Product Check Scheme, Reference Number: PCR.0629, are identified by electronic serial numbers in the range 17900600001 to 17900615000.

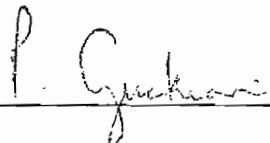
We, Qualcomm Incorporated of 6455 Lusk Boulevard, San Diego, California 92121, USA, declare under sole responsibility that the product to which this declaration relates is in conformity with:

- (a) The type as described in EC Type-Examination Certificate Number: BABT/99/6883
- (b) The following Common Technical Regulations and/or normative documents: 90/002 S/R2 and CTR 41 as specified in the commission decision 98/533/EC

following the provisions of Directive 91/263/EC.

Issued By: Qualcomm Incorporated
San Diego
California 92121
USA

Signed:



Date: 5th August 1999.

Paul Guckian
Senior Staff Manager
Regulatory Group
Qualcomm Globalstar Project

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

GRANT OF EQUIPMENT AUTHORIZATION
Certification

Qualcomm Incorporated
6455 Lusk Blvd.
San Diego CA 92121

Date of Grant: 9/8/99

Application Dated: 7/3/99

Attention: Karen Poyner, Assoc. Quality Engineer

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER **J9CGSTM1**
Name of Grantee **Qualcomm Incorporated**

Equipment Class : Licensed Non-Broadcast Transmitter Held to Ear

Notes: Globalstar Tri-Mode Portable User Terminal

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	25	1640 - 1621.35	1	10 PM	1M25G1W
	22.901(d)	824.02 - 848.98	0.62	10 PM	1M25F9W
	22(H)	824.02 - 848.98	0.6	0.00025 %	40K0F8W
	22(H)	824.02 - 848.98	0.6	0.00025 %	40K0F1D

Power output listed is EIRP for Part 25 and ERP for Part 22. SAR for AMPs mode tested at 547 mW conducted output. Units produced must not exceed this value in AMPs mode for satisfying SAR requirements. RF exposure for vehicle mount operations using car kit is under separate filing.

This is an interim Grant of Certification based on compliance with all relevant portions of Parts 1, 2 and 25 as specified in the NPRM for GEN Docket 98-68 adopted on May 14, 1998. We are granting this interim approval on the basis that final approval must satisfy the requirements and procedures adopted in our future CMPCS - MoU implementation proceeding, including the specific spurious and out-of-band emission limits adopted in the proceeding.

EA94735

In correspondence concerning this grant, please refer to the FCC IDENTIFIER and the date of grant.

POW

FCC 731A
October 1991



INTERNATIONAL TELECOMMUNICATION UNION

General Secretariat

T E L E F A X

Place des Nations
CH-1211 Geneva 20
Switzerland

Telephone +41 22 730 51 11
Telefax Gr3: +41 22 733 72 56
Gr4: +41 22 730 65 00

Date: 25 June 1999 Time: Page 1/3 Ref: GMPCS/M-HC/ml

To: Mr. Paul Guckian
Regulatory Manager, Globalstar Project
Qualcomm Incorporated
Building R (R202L)
6455 Lusk Boulevard
San Diego, California 92121
USA

Fax: + 1.619.658.1558

From: Yoshio UTSUMI, Secretary-General
Contact: Max-Henri Cadet
Manager, GMPCS-MoU Project

For your reply:

E-Mail: max-henri.cadet@itu.int

Fax: +41 22 730 5817 Tel: +41 22 730 6323

Subject: **Acknowledgement of Receipt for Qualcomm Single-Mode Portable IS-41 (GSP-1610)
& Qualcomm Tri-Mode Portable IS-41 (GSP-1600)**

Dear Mr. Guckian,

At its 1998 Session the ITU Council adopted Resolution 1116 which, in accordance with the GMPCS-MoU Arrangements, specifically instructs the Secretary-General:

- To act as the registry for type approval procedures;
- To act as the registry for terminal types; and
- To authorize the use of the abbreviation ITU in the GMPCS-MoU Mark.

The steps to register type approval procedures and terminal types under the Arrangements are described in Paragraphs 3-9 of the Implementation of the GMPCS-MoU Arrangements (13 March 1998), hereinafter referred to as Annex 1. Paragraph 6 of Annex 1 states that the ITU Secretary-General immediately informs the GMPCS Terminal Manufacturer that it has received the letters described in Paragraphs 3, 4 and 5.

The Secretary-General has received the following implementation letters from:

- Globalstar, L. P. on 26 March 1999;
- Qualcomm Incorporated on 5 April 1999; and

- BAPT on 31 May 1999 (Approval Number AA610044 (GSP-1610) and Approval Number AA610050 (GSP-1600))

In the exercise of the implementation function described in Paragraph 6 of Annex 1, the Secretary-General hereby acknowledges receipt of all the letters described in the preceding paragraph. Accordingly, Qualcomm may now affix the GMPCS-MoU Mark to the above referenced terminals.

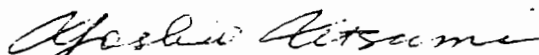
However, Council Resolution 1116 authorizes the use of the abbreviation "ITU" as part of the GMPCS-MoU Mark with the understanding that the ITU shall be protected against liability from such use. Since Qualcomm, Inc. already executed the Manufacturer Authorization Agreement dated 2 June 1999, it is now authorized to affix the Abbreviation "ITU" as part of the GMPCS-MoU Mark to **Single-Mode Portable IS-41 Digital (GSP-1610) and Tri-Mode Portable IS-41 Digital (GSP-1600)** and related Qualcomm, Incorporated Materials.

In order for the GMPCS-MoU Mark to be used on new GMPCS terminals subsequently authorized for connection to any GMPCS System, information about such GMPCS terminals should be provided to the Secretary-General as stated in Paragraph 8 of Annex 1; unless such terminals are already covered by the type approval information in the ITU registry.

The GMPCS-MoU Mark was designed by the ITU in consultation with the GMPCS-MoU Group. The purpose of the Mark is to provide a recognizable designation that GMPCS terminals have met the essential standards for health and safety, electromagnetic interference and electromagnetic compatibility. It is also intended to promote the transborder circulation of these terminals and to facilitate the mutual recognition of GMPCS type approvals.

Enclosed with this letter is the Authorized User Guidelines for the GMPCS-MoU Mark (Annex). Please note that no modification other than a proportional reduction of the Mark is permitted.

Yours sincerely,


Yoshio UTSUMI
Secretary-General

Annex

Annex

Authorized User Guidelines for the GMPCS-MoU Mark International Telecommunication Union (ITU)

1. **Description:** The GMPCS-MoU Mark ("Mark") includes the abbreviation "ITU" surrounded by two circumscribing rings. The letters "GMPCS-MOU" are arranged in a semicircular fashion above the central Abbreviation "ITU" between the inner ring and the outer ring and are centered above an horizontal line bisecting the two rings. The letters "REGISTRY" are arranged in a semicircular fashion below the central Abbreviation "ITU" between the inner ring and the outer ring and are centered below a horizontal line bisecting the two rings.
2. **Official GMPCS-MoU Mark:** The official GMPCS-MoU Mark is the graphical representation attached to the Acknowledgement of Receipt letter issued by the ITU Secretary-General. It is the only version of the Mark authorized for use by the ITU.
3. **Size and Legibility:** The GMPCS-MoU Mark may be increased or decreased in size to accommodate intended usage. However, the letters and other elements of the Mark's design must remain legible and in the same proportionate sizes as illustrated in the graphical representation.
4. **Manner of Affixing the Mark:** The Abbreviation "ITU" is a distinctive identifier of the ITU" and all rights and goodwill pertaining to the Abbreviation "ITU" belong exclusively to the International Telecommunication Union. The Mark shall be affixed only to products or materials specifically described in the manufacturer or system operator Authorization Agreement and pursuant to the terms and conditions of that Agreement. The Mark shall at all time be reproduced or displayed on products or materials in a manner consistent with the intergovernmental status of the International Telecommunication Union.
5. **Notice to the Public:** The ITU recognizes that the products and materials authorized to bear the GMPCS-MoU Mark may also include legal notices required by national laws. In addition, in order to avoid any dispute or charges of unfair use of the Mark against any entity authorized to use the Abbreviation "ITU," the ITU strongly recommends that any such entity fully disclose *in writing* to the public the purpose of the Mark in a manner consistent with both the letter and the spirit of the Authorization Agreements, the GMPCS Memorandum of Understanding (GMPCS-MoU), the Arrangements and its Annex.
6. **Consultation with the ITU Secretariat:** The Secretariat of the International Telecommunication Union strongly urges any authorized entity to seek guidance from the ITU Secretariat whenever it is uncertain about any matter related to the use of the Abbreviation "ITU." Any inquiry should be addressed to the GMPCS-MoU Project Manager, Strategic Planning Unit, International Telecommunication Union.



TECHNICAL ACCEPTANCE CERTIFICATE

CERTIFICAT D'APPROBATION TECHNIQUE

CERTIFICATION No. ► 2723701115A
 No. DE CERTIFICATION

ISSUED TO ► QUALCOMM INCORPORATED
 DÉLIVRÉ A

TYPE OF EQUIPMENT ► GLOBALSTAR TRI MODE PORTABLE UT
 GENRE DE MATÉRIEL

TRADE NAME AND MODEL ► GSP-1600
 MARQUE ET MODELE

FREQUENCY RANGE ► 1610 MHz to 1621.35 MHz
 BANDE DE FRÉQUENCES

EMISSION DESIGNATION ► 1M25G1WEW
 DESIGNATION D'ÉMISSION

R.F. POWER RATING ► 0.4 Watt, 1 Watt EIRP Max.
 PUISSANCE NOMINALE H.F.

CERTIFIED TO ► SPECIFICATION RSS170 ISSUE 1
 CERTIFIÉ SELON LE CAHIER DES CHARGES ÉDITION

Certification of equipment means only that the equipment has met the requirements of the above noted specification. License applications, where applicable to use certified equipment, are acted on accordingly by the issuing office and will depend on the existing radio environment, service and location of operation.


L'homologation de matériel terminal signifie seulement qu'il est conforme aux exigences du cahier des charges mentionné ci-dessus. Les demandes de licence, le cas échéant en vue de l'utilisation de matériel certifié seront traitées en conséquence par le bureau chargé de délivrer lesdites licences, en tenant compte du milieu radioélectrique ambiant, du service radio existant et de l'emplacement de la station.

This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the radio standards specifications and procedures issued by the Department.

Le présent certificat est délivré à condition que le détenteur se conforme et continue à se conformer aux cahiers des charges et procédures sur les normes radioélectriques publiées par le ministère.

ISSUED UNDER THE AUTHORITY OF MINISTER OF INDUSTRY
 DELIVRE AVEC L'AUTORISATION DU MINISTRE DES INDUSTRIE

DATE September 2, 1999

FOR 

DIRECTOR GENERAL SPECTRUM ENGINEERING BRANCH
 DIRECTEUR GÉNÉRAL GÉNIE DU SPECTRE



TECHNICAL ACCEPTANCE CERTIFICATE

CERTIFICAT D'APPROBATION TECHNIQUE

CERTIFICATION No. > 2723281175A
 No. DE CERTIFICATION

ISSUED TO > QUALCOMM INCORPORATED
 DÉLIVRÉ A

TYPE OF EQUIPMENT > PORTABLE CELLULAR RADIO TRANSCEIVER
 GENRE DE MATÉRIEL

TRADE NAME AND MODEL > GSP-1600
 MARQUE ET MODELE

FREQUENCY RANGE > 824 MHz to 894 MHz
 BANDE DE FRÉQUENCES

EMISSION DESIGNATION > 40K0F8WLF/40K0F1DXF
 DESIGNATION D'ÉMISSION

R.F. POWER RATING > 0.6 Watt, -2.2 dBW ERP Max.
 PUISSANCE NOMINALE H.F.

CERTIFIED TO > SPECIFICATION RSS128 ISSUE 1
 CERTIFIÉ SELON LE CAHIER DES CHARGES ÉDITION

Certification of equipment means only that the equipment has met the requirements of the above noted specification. License applications, where applicable to use certified equipment, are acted on accordingly by the issuing office and will depend on the existing radio environment, service and location of operation.

L'homologation de matériel terminal signifie seulement qu'il est conforme aux exigences du cahier des charges mentionné ci-dessus. Les demandes de licence, le cas échéant en vue de l'utilisation de matériel certifié seront traitées en conséquence par le bureau chargé de délivrer lesdites licences, en tenant compte du milieu radioélectrique ambiant, du service radio existant et de l'emplacement de la station.

This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the radio standards specifications and procedures issued by the Department.

Le présent certificat est délivré à condition que le détenteur se conforme et continue à se conformer aux cahiers des charges et procédures sur les normes radioélectriques publiées par le ministère.

ISSUED UNDER THE AUTHORITY OF MINISTER OF INDUSTRY
 DELIVRE AVEC L'AUTORISATION DU MINISTRE DES INDUSTRIE

DATE September 2, 1999

FOR

DIRECTOR GENERAL
 SPECTRUM
 ENGINEERING
 BRANCH

DIRECTEUR GÉNÉRAL
 GÉNIE
 DU SPECTRE



REPÚBLICA FEDERATIVA DO BRASIL
AGÊNCIA NACIONAL DE TELECOMUNICAÇÕES

CERTIFICADO DE PRODUTO PARA TELECOMUNICAÇÕES
INTRANSFERÍVEL

Certificado: **REGISTRO**

nº: **112899-A000540**

Processo nº: **53500.003266/99**

Requerente: **GLOBALSTAR DO BRASIL S/A**
 End.: **PRAIA DO FLAMENGO, 200, 19 ANDAR**
RIO DE JANEIRO - RJ - 22210-060

C.G.C.: **02.231.030/0001-34**

Fabricante: **QUALCOMM INC.**
 End.: **6455 LUSK BLVD. - SAN DIEGO 92121**
CALIFORNIA - USA

C.G.C.:

Tipo do produto: **TELEFONE MOVEL DO SGMS**

Modelo: **GSP1600**

Norma(s) Técnica(s): **PRATICA TELEBRAS 225-320-711**

Categoria: **5D 1C**

Características Técnicas Básicas:

- **TERMINAL PORTATIL DE ASSINANTE. PERMITE A UTILIZACAO NO SERVICIO MOVEL CELULAR NOS PADROES AMPS OU CDMA E NO SISTEMA GLOBALSTAR;**
- **FAIXAS DE FREQUENCIAS - TRANSMISSAO: 824 A 849 MHZ, 1610 A 1621,35; 2483,5 A 2500 MHZ;**
- **RECEPCAO: 869 A 894 MHZ;**
- **POTENCIA DE SAIDA MAXIMA: 1,0 W/ETRP (GLOBALSTAR) OU 0,6 W/ERP (AMPS OU CDMA);**
- **DESIGNACAO DAS EMISSOES: 40K0F8W, 40K0F1D, 1M25F9W E 1M25GIW;**
- **NUMERO DE NAM/ACCESSO DISPONIVEL PARA O USUARIO: 03;**
- **IDENTIFICACAO DA F.C.C.: J9CGSTMI.**

Observações:

- **O PRESENTE CERTIFICADO NAO CONFERE ATESTADO DE QUALQUER NATUREZA AO PRODUTO PARA FINS DE IMPORTACAO.**
- **TODAS AS UNIDADES DO PRODUTO OBJETO DESTA CERTIFICACAO DEVEM SER IDENTIFICADAS DE ACORDO COM A PORTARIA NR. 10/92-DNFI, (DOU DE 13.04.92).**

Certifico, nos termos da Norma Geral de Telecomunicações nº 004/91 e de acordo com os dados apresentados no processo de certificação, que o produto acima especificado possui características compatíveis com o seu uso em telecomunicações no país, podendo ser fornecido aos interessados habilitados em utilizá-lo.

Emissão: **30/09/1999**

Validade: **30/09/2001**

Autenticação:

ALEXANDER CASTRO
 Gerente Geral de Certificação e Engenharia do Espectro

무선기기형식등록증명서

Radio Equipment Type Registration Certificate

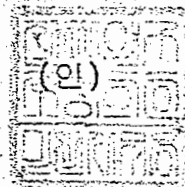
등록자 성명 또는 상호 (Applicant or Trade Name)	(주)데이콤
기 기 의 명 칭 (Equipment Name)	GSP-1600 Tri-Mode Phone형 위성휴대통신무선국용 무선설비의기기
기 기 의 형 식 명 (Type of Equipment)	GMPCS-103D1610.00-1621.35T/2483.50-2500.00R0.4G7W+MCA-10A824.00-849.00T/869.00-894.00R0.4F3EF9X
형 식 등 록 번 호 (Type Registration No.)	GMPCS 990004
형 식 등 록 합 격 년 월 일 (Date of Type Registration)	1999.10.25.
기 타 필 요 한 사 항 (Others)	o 제작자:QUALCOMM Inc(미국) o +D824.00-849.00T/869.00-894.00R0.4G7W-1 (형식명 추가함)

위 기기는 무선설비형식검정 및 형식등록규칙 제11조 제1항 또는 제3항의 규정에 의하여 형식등록에 합격하였음을 증명함.

1999 년 10 월 25 일

(It is certified that foregoing applicant has been registered under the provisions of paragraph 1 or 3 of article 11 of the Regulation on Type Approval and Type Registration of wireless Facilities on the 25th day of October, 1999)

전 파 연구 소 장



(signed by)
/ s /

Director General
 Radio Research Laboratory
 Ministry of Information and Communication
 Republic of Korea

담당부서	품질인증과
책임자	오 홍 결
담당자	영 호 선
연락처	(0343)452-4001

МИНИСТЕРСТВО РОССИЙСКОЙ ФЕДЕРАЦИИ
ПО СВЯЗИ И ИНФОРМАТИЗАЦИИ



Система сертификации "Электросвязь"

Зарегистрирована в Государственном реестре за № РОСС.РС.000.01

СЕРТИФИКАТ СООТВЕТСТВИЯ

Срок действия: с 6 июля 2000 г. до 6 июля 2003 г.

НАИМЕНОВАНИЕ ПОДЛЕЖАЩЕГО СЕРТИФИКАЦИИ ПРЕДМЕТА
Возможный вариант абонентского терминала типа CSP-1600 с комплектом дополнительного оборудования типа ССК 1400 для установки на подвижном объекте производства фирмы Qualcomm Inc. (США), технические условия ТУ 43.032.007-2000

НАИМЕНОВАНИЕ ПОДЛЕЖАЩЕГО СЕРТИФИКАЦИИ СООТВЕТСТВИЯ ПРЕДМЕТА
Qualcomm Inc.,
5775 Morehouse Drive, San Diego CA 92121 USA

ТЕХНИЧЕСКИЕ ТРЕБОВАНИЯ, НА СООТВЕТСТВИЕ КОТОРЫХ ПРОВЕРЯЕТСЯ ПРЕДМЕТ
"Общие технические требования на российский сегмент системы Глобалстар", утвержденные Минсвязью России 25.01.2000; "Общие технические требования к оборудованию систем радиомобильной связи с кодовым разделением каналов (CDMA)", утвержденные Минсвязью России 26.12.98; "Технические требования на оборудование сетей сотовой подвижной связи, внедряемых на сетях ТФОИ России", утвержденные Минсвязью России 25.01.94; ГОСТ Р 51061-97, нормы ГН 2.1.8/2.2.4.019-94; ГОСТ Р ИСО 9001-96

НАИМЕНОВАНИЕ ИЛИ НАИМЕНОВАНИЕ ЦЕНТРА ИЛИ ЛАБОРАТОРИИ
Центр сертификационных испытаний средств радиосвязи при НИИР
Сертификационная лаборатория систем качества "Связь-сертификат"

НАИМЕНОВАНИЕ ИЛИ НАИМЕНОВАНИЕ ЦЕНТРА ИЛИ ЛАБОРАТОРИИ
Заключение ЦСИРС НИИР № 95-87/1824 от 21.06.2000,
заключение СА СК "Связь-сертификат" № СЦ-Зк-31/00 от 02.06.2000

РЕШЕНИЕ ОРГАНА ПО СЕРТИФИКАЦИИ
Настоящим Сертификатом Орган по сертификации Министерства Российской Федерации по связи и информатизации удостоверяет соответствие возможного варианта абонентского терминала типа CSP-1600 с комплектом дополнительного оборудования типа ССК 1400 для установки на подвижном объекте производства фирмы Qualcomm Inc. (США) вышеперечисленным техническим требованиям и нормативной документации, включая требования безопасности и электромагнитной совместимости. Оборудование не имеет программно-управляемых средств, использующих данные о дате, и не подлежит испытанию на соответствие "Общим техническим требованиям к техническим средствам связи. Соответствие 2000 году", утвержденным Госкомсвязи России 25.12.98

КОДОВЫЕ ДИАПАЗОНЫ ПРОДУКЦИИ
Применяется в составе российского сегмента системы Глобалстар
в диапазоне частот 1610,0-1626,5 МГц и 2483,5-2500,0 МГц

ИНАК СЕРТИФИКАТА СООТВЕТСТВИЯ
СМ. СПЕЦИФИЧНОЕ ЗАЯВЛЕНИЕ НА СА. КОМПЛЕКТ ИЛИ
ИЛИ ПЕРИОДИЧЕСКИЕ ДОКУМЕНТЫ РАДИОСВЯЗИ НА НЕКОТОРЫЕ ОУТ 43-92-97

Заключен в системе Государственного
органа по сертификации

Руководитель органа
по сертификации —
[подпись]

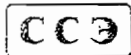


[подпись] Н.С. Пожилов
[подпись] А.В. Фрицков

Секретариат: 8(495) 253-10-10

Адрес: Москва, ул. Мясницкая, д. 26

МИНИСТЕРСТВО РОССИЙСКОЙ ФЕДЕРАЦИИ
ПО СВЯЗИ И ИНФОРМАТИЗАЦИИ



Система сертификации "Электросвязь"

Зарегистрирована в Государственном реестре за № РОСС RU.0001.01.0000

СЕРТИФИКАТ СООТВЕТСТВИЯ

Срок действия: с 6 июля 2000 г. до 6 июля 2003 г.

НАИМЕНОВАНИЕ ПРОДУКЦИИ - *или модели, номер типовой конструкции*

Носимый абонентский терминал типа GSP-1600
производства фирмы Qualcomm Inc. (США),
технические условия ТУ 45.032.006-2000

НАИМЕНОВАНИЕ ПРЕДПРИЯТИЯ, ПОЛУЧАЮЩЕГО СЕРТИФИКАТ СООТВЕТСТВИЯ - *или адрес*

Qualcomm Inc.,
3775 Morehouse Drive, San Diego CA 92121 USA

ТЕХНИЧЕСКИЕ ТРЕБОВАНИЯ, НА СООТВЕТСТВИЕ КОТОРЫМ ПРОВЕРЯЕТСЯ ПРОДУКЦИЯ

"Общие технические требования на российский сегмент системы Глобалстар", утвержденные Минсвязи России 25.01.2000; "Общие технические требования к оборудованию систем радиотелефонной связи с кодовым разделением каналов (CDMA)", утвержденные Минсвязи России 30.12.96; "Технические требования на оборудование сетей сотовой подвижной связи, внедряемых на сетях ТФОП России", утвержденные Министерством связи Российской Федерации 25.01.94;

ГОСТ Р 51061-97, нормы ГН 2.1.8/2.2.4.019-94; ГОСТ Р ИСО 9001-96

НАИМЕНОВАНИЕ ИСПЫТАТЕЛЬНОГО ЦЕНТРА (ЛАБОРАТОРИИ)

Центр сертификационных испытаний средств радиосвязи при НИИР
Сертификационная лаборатория систем качества "Связь-сертификат"

ЗАКЛЮЧЕНИЕ ИСПЫТАТЕЛЬНОГО ЦЕНТРА (ЛАБОРАТОРИИ)

Заключение ЦСИРС НИИР № 95-87/1823 от 21.06.2000,
заключение СА СК "Связь-сертификат" № СЦ-Зк-31/00 от 02.06.2000

РЕШЕНИЕ ОРГАНА ПО СЕРТИФИКАЦИИ

Настоящим Сертификатом Орган по сертификации Министерства Российской Федерации по связи и информатизации удостоверяет соответствие носимого абонентского терминала типа GSP-1600 производства фирмы Qualcomm Inc. (США) вышеперечисленным техническим требованиям и нормативной документации, включая требования безопасности и электромагнитной совместимости. Оборудование не имеет программно-управляемых средств, использующих данные о дате, и не подлежит испытанию на соответствие "Общим техническим требованиям к техническим средствам связи. Соответствие 2000 году", утвержденным Госкомсвязи России 25.12.98

УСЛОВИЯ ПРИМЕНЕНИЯ ПРОДУКЦИИ

Применяется в составе российского сегмента системы Глобалстар
в диапазоне частот 1610,0-1626,5 МГц и 2483,5-2500,0 МГц

ЭНАК СЕРТИФИКАТА СООТВЕТСТВИЯ

ЭНАК ОБЯЗАТЕЛЬНОГО РАЗМЕЩЕНИЯ НА САМОМ ИЗДЕЛИИ
и в сопроводительной документации на него - по ГОСТ 45.02-97

Зам. руководителя Центрального
органа по сертификации

Руководитель органа
по сертификации —
начальник Управления
по сертификации



Н. Ф. Позариков

А. В. Рыкова

CTIA CERTIFICATION PROGRAMS

Certificate of Acceptance

Presented to


Qualcomm Incorporated

In recognition of the


Globalstar Tri-Mode Portable User Terminal GSP-1600

The Cellular Telecommunications Industry Association hereby certifies that the above mentioned wireless mobile station bearing FCC ID Number J9CGSTM1 has been found to satisfy the requirements of the CTIA Mobile Station Certification Program, and therefore, for a period of 18 months from this date, all wireless mobile stations bearing these Identification Numbers are entitled to the CTIA Certification Seal.

Given at Washington, D.C.,
the 29th day of September, 1999


Thomas E. Wifeler

President/CEO


Timothy H. Jeffries

Director, Certification Programs



CTIA

Building The Wireless Future.

Cellular Telecommunications Industry Association

November 18, 1999

Mr. Vince Butsumyo
Qualcomm Incorporated
5775 Morehouse, Drive
San Diego, CA 92121

RE: CTIA Certification on the GSP-1600

Dear Mr. Butsumyo:

On September 29, 1999, I was pleased to inform you that the **Qualcomm Globalstar GSP-1600**, as identified by FCC Number J9CGSTM1, successfully completed the requirements for CTIA Certification. As such, units that bear the same CTIA tested and certified FCC ID and software revision numbers are entitled to use the Certification Seal as a physical seal affixed to the units, their packaging, and in their advertising pursuant to the terms of the our License Agreement.

The certification period for the above mentioned unit is eighteen (18) months provided that the conditions outlined in the CTIA Certification Program Management Document (PMD) are met. For a CDMA capable unit, such as this, this requires a mandatory reevaluation six (6) months from the date of Certification and subsequent six month updates on software and hardware changes thereafter. For additional information on maintaining certification refer to the CTIA PMD.

If you have any questions regarding this correspondence please do not hesitate to contact me at 202/736-3896. Congratulations and I apologize for my delay in officially providing you with this notification.

Sincerely,

Timothy H. Jeffries
Director, Certification Programs

