Date & Time Filed: Jan 26 2010 7:36:23:676PM File Number: SES-LIC-INTR2010-00351

Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: Galaxy Broadband VSAT Application — January 2010

1–8. Legal Name of Applicant

Name: Galaxy Broadband Phone Number: 877–463–9728

Communications, Inc.

DBA Fax Number:

Name:

Street: 4020A Sladeview Crescent, Unit 4 E–Mail: rick@galaxybroadband.ca

City: Mississauga State:

Country: Canada Zipcode: –

Attention: Mr. Rick Hodgkinson

9–16. Name of Contact Representative

Name: Stephen D. Baruch Phone Number: 202–416–6782

Company: Lerman Senter PLLC Fax Number: 202–429–4626

Street: 2000 K Street, N.W. E-Mail: sbaruch@lermansenter.com

Suite 600

City: Washington State: DC

Country: USA Zipcode: 20006–

Attention: Relationship: Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b. a. a. a1. Earth Station (N/A) a2. Space Station	 b. b1. Application for License of New Station b2. Application for Registration of New Domestic Receive—Only Station (N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive—Only Station Using Non—U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non—U.S. Licensed Satellite to Provide Service in the United States b10. Other (Please specify) b11. Application for Earth Station to Access a Non—U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States. b12. Application for Database Entry (N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modifiction of Database Entry
17c. Is a fee submitted with this application If Yes, complete and attach FCC Form	on? 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
Ofther(please explain):	rcial educational licensee
17d. Fee Classification BGV – Fixed Satellite V	SAT System

18. If this filing is in reference to an existing station, enter: (a) Call sign of station: Not Applicable 19. If this filing is an amendment to a pending application enter: (a) Date pending application was filed: (b) File number of pending application: Not Applicable Not Applicable
--

TYPE OF SERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provide	or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
O Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER sefacilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
O Connected to a Public Switched Network Not connected to	o a Public Switched Network

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).			
a. C–Band (4/6 GHz) b Ku–Band (12/14 GHz)			
c.Other (Please specify upper and lower frequencies in MHz.)			
Frequency Lower: Frequency Upper:			
TYPE OF STATION			
25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.			
a. Fixed Earth Station			
b. Temporary–Fixed Earth Station			
c. 12/14 GHz VSAT Network			
d. Mobile Earth Station			
(N/A) e. Geostationary Space Station			
(N/A) f. Non-Geostationary Space Station			
g. Other (please specify)			
26. TYPE OF EARTH STATION FACILITY: Choose only one.			
Transmit/Receive Transmit-Only Receive-Only N/A			
PURPOSE OF MODIFICATION			
27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)			
Not Applicable			

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	Yes No Exhibit C
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	utical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O No
30. Is the applicant an alien or the representative of an alien?	O Yes O No O N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O No O N/A
32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes O No O N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes O No	o o N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	O Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	⊚ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	O Yes	No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, w coordinated or is in the process of coordinating the space station?	hat administr	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the contappear in this box, please go to the end of the form to view it in its entirety.)	omplete desc	ription does
See Attachment Exhibit A		

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	● A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o c

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

O Individual				
 Unincorporated Association 				
Partnership				
© Corporation				
Governmental Entity				
Other (please specify)				
45. Name of Person Signing Rick Hodgkinson		46. Title of P CEO	erson Signing	
47. Please supply any need attachr	nents.			
Attachment 1:	Attachment 2:		Attachment 3:	

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier: 1.2M Remote E5. Call Sign:

E2: Contact Name Tarun Rawat E6. Phone 301–428–1663

Number:

E3. Street: Hughes Network E7. City: Germantown

Systems

11717 Exploration E8. County: Montgomery

Lane

E4. State MD E9. Zip Code 20876

E10. Area of Operation: CONUS, AK, HI, PR, VI

E11. Latitude: 0 °0 '0.0 "N

E12. Longitude: 0 °0 '0.0 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	⊚ Ye	s O	No No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	○ Ye	s o	No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	● Ye	es	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	es	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yo	es	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Yo	es	•	No
POINTS OF COMMUNICATION	-			
Satellite Name: GALAXY 16 GALAXY 16 99 W.L. If you selected OTHER, please enter the following:				

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you	a selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: 1.2M Remote	
E26. Common Name:	E27. Country: Canada

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
1.2M Remote	1.2M	1000	Prodelin	1134	1.2	41.5 dBi at 11.9500
						43.1 dBi at 14.2500

Id	Diameter Minor/Major	E35. Above Ground Level (meters)	(meters)	Height Above Ground Level 	Input Power at antenna flange (Watts)	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
1.2M	0.0/0.0	0.0	0.0	0.0	2.0	0.0	46.1

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1.2M	11700.0000 12200.0000	R	Horizontal and Vertical	6M00G7D	0.0	0.0
E50. Modulation entirety.) OQPSK, DAT	TA, 5 MSPS, MUI			i uns oox, piease go	to the end of the form	to view it iii its
1.2M	11700.0000 12200.0000	R	Horizontal and Vertical	36M0G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear ir	n this box, please go	to the end of the form	to view it in its
OQPSK, DAT	TA, 30 MSPS, MU	ULTIMEDIA BROAI	OCAST CARRIER			
1.2M	14000.0000 14500.0000	Т	Horizontal and Vertical	200KG7D	46.1	29.1

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER

1.2M	14000.0000	Т	Horizontal and	1M60G7D	46.1	21.1
	14500.0000		Vertical			

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1.2M	Geostationary	11700.0000 12200.0000	62.0/ 143.0	134.0	5.0	257.0	5.0	0.0

	Geostationary	14000.0000 14500.0000	62.0/ 143.0	134.0		5.0	257.0	50.0	-2.5	
REMOTE C	<u> </u>	T T LOCATION								
N.O.C. NOTE: Ple	E61. Call Sign N.O.C. NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. E65. Phone Number 1-877-327-8848									
	E62. Street Address 4020A Sladeview Crescent Unit 4									
E63. City Mississaug	ga		E67. Coun Ontario	E67. County Ontario			E64/68. State/Country / Canad		E66. Zip C	Code

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier: 98CM Remote E5. Call Sign:

E2: Contact Name Tarun Rawat E6. Phone 301–428–1663

Number:

E3. Street: Hughes Network E7. City: Germantown

Systems

11717 Exploration E8. County: Montgomery

Lane

E4. State MD E9. Zip Code 20876

E10. Area of Operation: CONUS, AK, HI, PR, VI

E11. Latitude: 0 °0 '0.0 "N

E12. Longitude: 0 °0 '0.0 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide asExhibit B a technical analysis showing compliance with two–degree spacing policy.	O Yes	s ⊚ No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	o No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	● Ye	s O	. No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	s 💿	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Ye	s 📵	. No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Ye	s 🔞	No No
POINTS OF COMMUNICATION			
Satellite Name: GALAXY 16 GALAXY 16 99 W.L. If you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: 98CM Remote	
E26. Common Name:	E27. Country: Canada

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
98CM Remote	98CMRemote	5000	Prodelin	3981–226	0.98	39.9 dBi at 11.9500
						41.3 dBi at 14.2500

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)		(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
98CMRemote	0.0/0.0	0.0	0.0	0.0	2.0	0.0	44.3

FREQUENCY

E28. Antenna Id	E43/44.	E45. T/R Mode	E46. Antenna	E47. Emission	E48. Maximum	E49. Maximum
	Frequency Bands		Polarization(H,V,	Designator	EIRP per Carrier	ERIP Density per
	(MHz)		L,R)		(dBW)	Carrier
						(dBW/4kHz)

98CMRemote	11700.0000 12200.0000	R	Horizontal and Vertical	6M00G7D	0.0	0.0		
E50. Modulation entirety.)	and Services (If	the complete descript	tion does not appear	in this box, please	go to the end of t	he form to view it in its		
OQPSK, DAT	'A, 5 MSPS, MI	ULTIMEDIA BROAD	CAST CARRIER					
98CMRemote	11700.0000 12200.0000	R	Horizontal and Vertical	36M0G7D	0.0	0.0		
	entirety.) OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER							
98CMRemote	14000.0000 14500.0000	Т	Horizontal and Vertical	200KG7D	44.3	27.3		
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER								

98C1	MRemote	14000.0000 14500.0000	T	Horizontal and Vertical	1M60G7D	44.3	18.3	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)								
OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER								

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit		E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
98CMRemote	Geostationary	11700.0000 12200.0000	62.0/ 143.0	134.0	5.0	257.0	5.0	0.0
	Geostationary	14000.0000 14500.0000	62.0/ 143.0	134.0	5.0	257.0	5.0	-2.5

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number
N.O.C.	1-877-327-8848
NOTE: Please enter the callsign of the controlling station, not the	
callsign for which this application is being filed.	

E62. Street Address 4020A Sladeview Crescent Unit 4			
E63. City Mississauga	E67. County Ontario	E64/68. State/Country / Canada	E66. Zip Code

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25-24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.