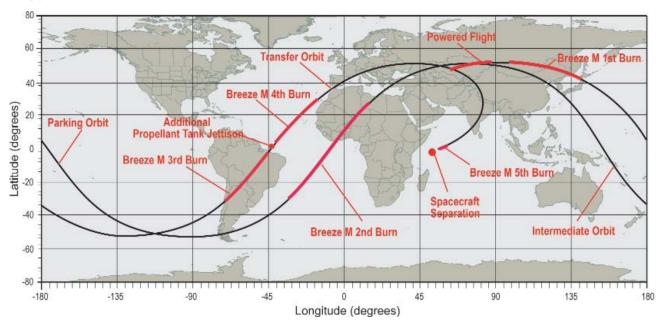
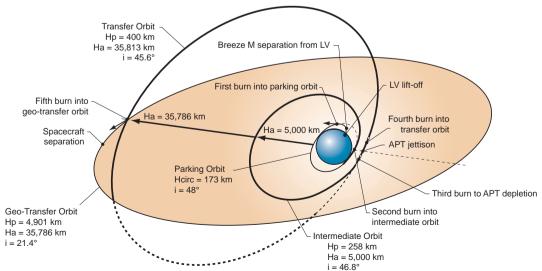
The Proton Breeze M launch vehicle, utilizing a 5-burn Breeze M mission design, will lift off from Pad 39 at the Baikonur Cosmodrome, Kazakhstan, with the DIRECTV 10 satellite on board. This will be the debut of the Enhanced Proton Breeze M, which is capable of launching spacecraft over 6000 kg into Geosynchronous Transfer Orbit (GTO). The first three stages of the Proton will use a standard ascent trajectory to place the Breeze M fourth stage and the DIRECTV 10 satellite into a sub-orbital trajectory, from which the Breeze M will place itself and the spacecraft into a circular parking orbit. Once DIRECTV 10 is in the parking orbit, it will be propelled into its transfer orbit by a series of additional burns of the Breeze M. Separation occurs approximately 9 hours, 8 minutes and 40 seconds after liftoff.

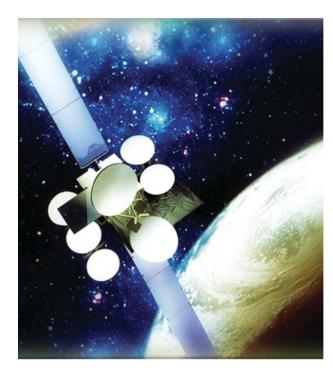
Typical 5-Burn Proton Ascent Ground Track



Typical 5-Burn Insertion Into Orbit



THE SATELLITE



Satellite Operator:

DIRECTV, Inc. www.directv.com

Satellite Manufacturer:

The Boeing Company www.boeing.com

Platform:

Boeing 702

Separated Mass: 5,893 kg

Design Life: 15 years

Mission:

DIRECTV's next-generation satellite features state-of-the-art antenna and payload subsystems that will provide customers with unparalleled national and local HDTV (High Definition Television) service. The powerful 131-transponder payload integrates 32 active and 12 spare TWTAs at Ka-band for national service and 55 active and 15 spare TWTAs for spot beams. The payload is powered by a gallium arsenide solar array that spans more then 48 meters. DIRECTV 10 will receive and transmit programming throughout the United States with two large Ka-band reflectors, each measuring 2.8 meters in diameter, and nine other Ka-band reflectors.



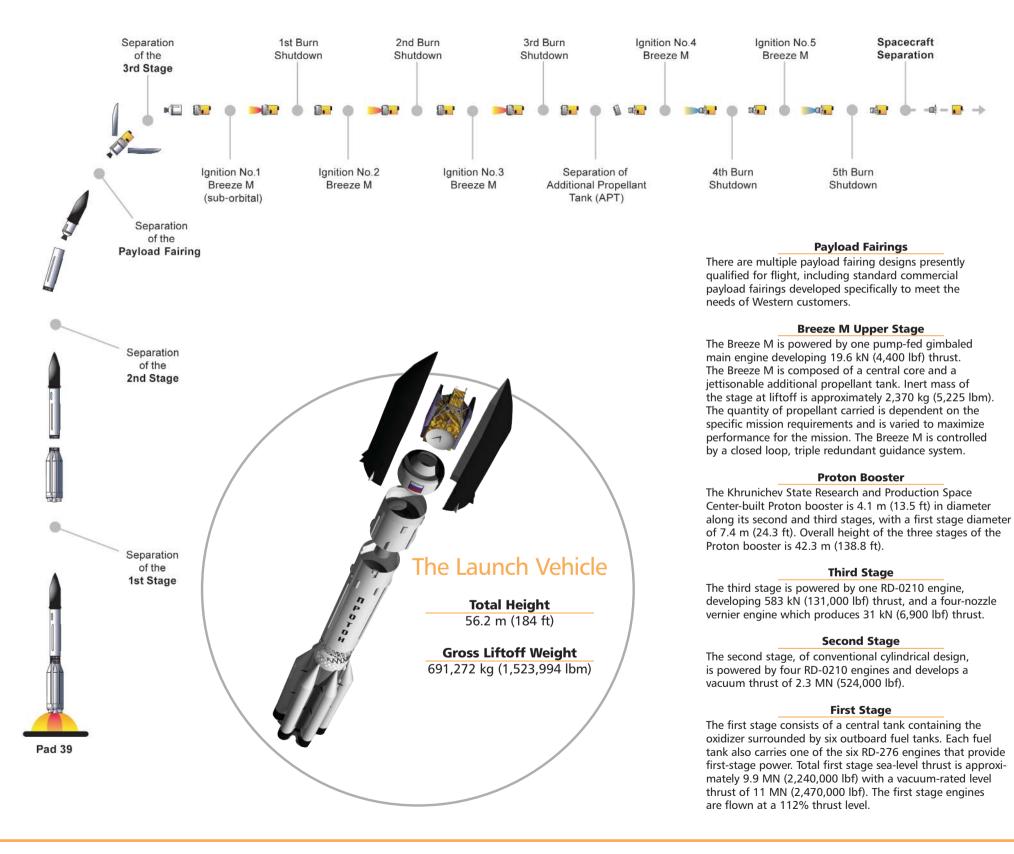


DIRECTV 10

Mission Overview

- 1st flight of Enhanced Proton Breeze M
- 1st Boeing 702 spacecraft on Proton
- 2nd ILS Proton in 2007
- 3rd DIRECTV launch on Proton
- 326th Proton launch

MISSION ASCENT PROFILE



Countdown and Flight Events Summary

EVENT HR:MIN:SEC	c
Ignition sequence start00:00:02.5	5
Stage one ignition, 40 percent thrust00:00:01.6	5
Command stage one thrust to 100 percent00:00:00:00.	9
Liftoff)
Maximum dynamic pressure00:01:02	2
Stage one/two separation00:02:00)
Stage two/three separation00:05:27	7
Payload fairing jettison00:05:44	1
Stage three upper stage separation from Breeze M00:09:41	1
Breeze M first burn ignition	5
Breeze M first burn shutdown00:16:04	1
Breeze M second burn ignition01:05:37	7
Breeze M second burn shutdown01:23:09	9
Breeze M third burn ignition03:26:19	9
Breeze M third burn shutdown03:37:03	3
Breeze M fourth burn ignition)
Breeze M fourth burn shutdown03:45:44	1
Breeze M fifth burn ignition08:48:37	7
Breeze M fifth burn shutdown08:54:40)
Breeze M/spacecraft separation	5