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| Launch Date | September 18, 2007 |
| Launch Vehicle | Boeing Delta 7920 (9-strap-ons) |
| Launch Location | Vandenberg Air Force Base, California, USA |
| Orbit Altitude | 496 Km |
| Orbit Inclination | sun-synchronous |
| Spacecraft Size, Mass & Power | 3.6 meters (12 feet) tall x 2.5 meters (8 feet) across, 7.1 meters (23 feet) across the deployed solar arrays 2500 kilograms (5500 pounds) 3.2 kW solar array, 100 Ahr battery |
| Equator Crossing Time | 10:30 AM (descending node) |
| Revisit Time | 1.7 days at 1 meter GSD or less 5.9 days at 20° off-nadir or less (0.51 meter GSD) |
| Swath Width | 17.6 Km at nadir |
| Full Scene | 17.6 Km x 14 Km or 246.4 Km ² at nadir |
| Orbit Time | 94.6 minutes |
| Dynamic Range | 11 bits per pixel |
| Resolution | 0.50 meters GSD at nadir 0.55 meters GSD at 20° off-nadir (note that imagery must be re-sampled to 0.5 meters for non-US Government customers) |
| Sensor Bands | Panchromatic |
| Metric Accuracy | Accuracy: <500 meters at image start and stop Knowledge: Supports geolocation accuracy below |
| Geolocation Accuracy (CE 90%) | Demonstrated <4.0 m CE90 without ground control |
| Retargeting Ability | Acceleration: 2.5 deg/s/s Rate: 4.5 deg/s Time to slew 300 kilometers: 9 seconds |
| Attitude Determination and Control | 3-axis stabilized Actuators: Control Moment Gyros (CMGs) Sensors: Star trackers, solid state IRU, GPS |
| Onboard Storage | 2199 gigabits solid state with EDAC |
| Communications | Image and Ancillary Data: 800 Mbps X-band Housekeeping: 4, 16 or 32 kbps real-time, 524 kbps stored, X-band Command: 2 or 64 kbps S-band |
| Max Viewing Angle / Accessible Ground Swath | 60 x 110 km mono 30 x 110 km stereo |