

GPS HERITAGE

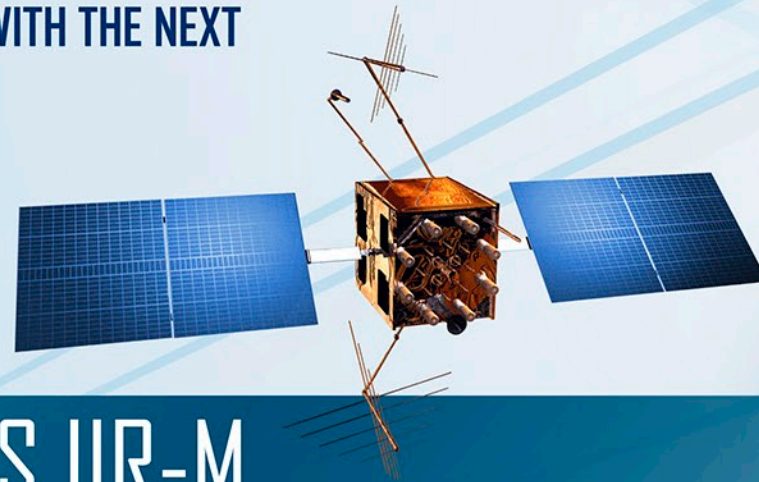
LOCKHEED MARTIN HAS A STRONG HERITAGE OF BUILDING AND SUSTAINING GLOBAL POSITIONING SYSTEMS (GPS). OUR ON-ORBIT GPS IIR AND IIR-M SATELLITES NOW HAVE OVER 235 COLLECTIVE YEARS OF OPERATIONS – MAKING UP 60% OF THE CURRENT GPS CONSTELLATION. WE ARE BUILDING ON THIS PROVEN PERFORMANCE TO EXPAND CAPABILITIES WITH THE NEXT GENERATION SYSTEMS – GPS III



GPS IIR

Since the launch of the first GPS IIR, the system has become completely woven into all aspects of modern life – delivering sustained, reliable capabilities to meet the needs of more than one billion GPS users worldwide.

- 12 satellites launched 1997-2004
- Design life: 7.5 years
- Status: 12 satellites still operational
- Frequencies: L1, L2
- Increased signal reliability
- Reprogrammable processors onboard



GPS IIR-M

To enhance operations and navigation, eight of the GPS-R satellites were modernized. Perhaps most important, GPS IIR-M satellites included new Civil and Military signals providing additional capabilities.

- 8 satellites launched 2005-2009
- Design life: 7.5 years
- Status: 8 satellites still operational
- L2C Civilian signal added
- L1M and L2M Military signals added
- Anti-jam flex power



GPS III

GPS III will meet users' emerging needs and respond to tomorrow's threats with improved safety, signal integrity and unbelievable accuracy.

- On contract for 10 GPS III satellites
- Doubled design life of 15 years
- 3 times more accurate
- 8 times improved anti-jam capability
- L1C Global Navigation Satellite Systems (GNSS) compatibility
- Search and Rescue, Laser Reflector Array and Digital Payload at SV 11+
- Designed to evolve to incorporate new technology and changing mission needs