

NEWSPACE MARKET · COMPANY PROFILE



# MDA Space

Canada · founded 1969 · [mda.space](https://mda.space)

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WITH DATASHEETS

[newspacemarket.com/companies/mda-space/](https://newspacemarket.com/companies/mda-space/)

as of 20 August 2026



## MDA Space

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MDA Space designs and manufactures robotics, satellite systems, and provides geointelligence services. The company is a global leader in communications satellites, Earth and space observation, and space exploration and infrastructure. They serve the global defense and space industry. MDA Space has a history of over 55 years and has contributed to more than 450 missions. The company employs more than 4,000 space experts.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

## SERVICES

## Services

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### Custom-built satellite missions

MDA Space acts as a trusted and tested mission partner for custom-built satellite missions, leveraging decades of heritage in geostationary orbit and expanding to non-geostationary constellations.

### Data Processing and Analytics for Monitoring

CLS, now part of MDA Space, processes vast amounts of data from various beacons and satellite instruments to provide insights for environmental monitoring, maritime surveillance, and other application

### Design, Manufacture, Assembly and Test of Satellites

MDA Space provides comprehensive services for satellite development, including design, manufacturing, assembly, and testing, as demonstrated by their work on the Telesat Lightspeed constellation.

### Developing Multiple Antennas

MDA Space develops multiple antennas for large satellite constellations, such as the 650-satellite OneWeb constellation.

### Environmental Monitoring and Surveillance

CLS, now part of MDA Space, provides innovative space-based solutions for monitoring and protecting the planet, including environmental monitoring and maritime surveillance.

### Geointelligence Services

MDA Space is expanding its geointelligence capabilities by integrating satellite assets and services with AI-driven analytics to provide comprehensive Earth and space observation data and products.

### Providing Data Communication Capabilities

MDA Space provides data communication capabilities between space assets like the ISS, communication satellite networks, and Earth ground stations.

### Satellite Integration and Testing

MDA Space is responsible for the integration and testing of next-generation satellites, ensuring their functionality and performance for constellations like Globalstar's LEO constellation.

## PRODUCTS

## Product catalogue

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MDA SPACE  
**Canadarm3 / Space Robotics Systems**

MDA Space's Canadarm3 autonomous robotics system for NASA's Lunar Gateway, and heritage space robotics (Canadarm, Canadarm2, SPDM Dextre for ISS).

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| Systems               | Canadarm (Shuttle, retired),<br>Canadarm2 (ISS), Canadarm3<br>(Lunar Gateway) |
| Canadarm3 Feature     | Autonomous operation during<br>communication blackouts                        |
| Canadarm3 Destination | NASA Lunar Gateway                                                            |
| Other Products        | Satellite antennas, RADARSAT<br>radar satellites                              |
| Country               | Canada (Brampton, Ontario HQ)                                                 |

price on request



MDA SPACE  
**MDA AURORA**

MDA AURORA is MDA Space's flagship software-defined digital satellite product line, featuring digital beamforming payloads that enable dynamic, in-orbit reconfigurable coverage and

|                                      |                                                                                                     |
|--------------------------------------|-----------------------------------------------------------------------------------------------------|
| Product type                         | Software-defined digital<br>communications satellite<br>platform                                    |
| Payload architecture                 | Digital beamforming-enabled,<br>electronically-steered direct<br>radiating array, Ka-band           |
| Beam capability                      | Multiple simultaneous,<br>electronically steered,<br>dynamically reconfigurable<br>beams with nativ |
| On-board processing                  | Scalable regenerative on-<br>board processor with<br>software-defined packet<br>router              |
| Reconfigurability                    | FPGA-based software-defined<br>capability allowing in-orbit<br>mission adaptation                   |
| Manufacturing capacity               | Up to 400 satellites per year<br>at Montreal, Quebec facility                                       |
| Flight heritage - Telesat Lightspeed | 198 satellites; PDR completed<br>2025; launches planned from<br>2026                                |

price on request



#### MDA SPACE

### MDA AURORA™

MDA AURORA™ is a new software-defined digital satellite product line designed to transform global satellite connectivity, offering modular digital products and components for space

|              |                                                                  |
|--------------|------------------------------------------------------------------|
| Band         | Ku-band                                                          |
| Form factor  | smallest VSAT in market (per manufacturer)                       |
| Applications | fleet management, fishing, mining, pipeline, agriculture IoT/M2M |

price on request



#### MDA SPACE

### Onyx Aero Terminal

Electronically steered in-flight-connectivity terminal with no moving parts for airlines and business jets.

|               |                                         |
|---------------|-----------------------------------------|
| Band          | Ku-band                                 |
| Antenna type  | electronically steered, no moving parts |
| Modem         | embedded SDR modem                      |
| Target market | airlines, business jets                 |

price on request



#### MDA SPACE

### Sx3099 SDR ASIC

LEO/MEO/GEO satellite modem chip supporting up to 8 DVB-S2X channels and full Beam Hopping.

|                      |                             |
|----------------------|-----------------------------|
| Carriers             | 2 x 500 MHz                 |
| RX channels          | 8 parallel                  |
| SerDes lanes         | 4 x 12.5 Gbps               |
| DVB-S2X channels     | up to 8 (~1 Gbps aggregate) |
| Return link standard | DVB-RCS2/S2X                |
| Beam Hopping         | full support                |

price on request



#### MDA SPACE

### Sx4000 OBP/SDR ASIC

Space-grade, radiation-hardened on-board-processing chip for high-throughput satellite payloads.

|                     |                                      |
|---------------------|--------------------------------------|
| Processed bandwidth | 2 GHz                                |
| Carriers            | up to 16                             |
| Standard            | DVB-S2X/RCS2                         |
| Radiation tolerance | radiation hardened (space-grade)     |
| Processor           | Quad Core ARM53 + DSP, >10,400 DMIPS |
| Interfaces          | JESD204B/C SerDes                    |

price on request

[datasheet](#)

## Contact MDA Space

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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