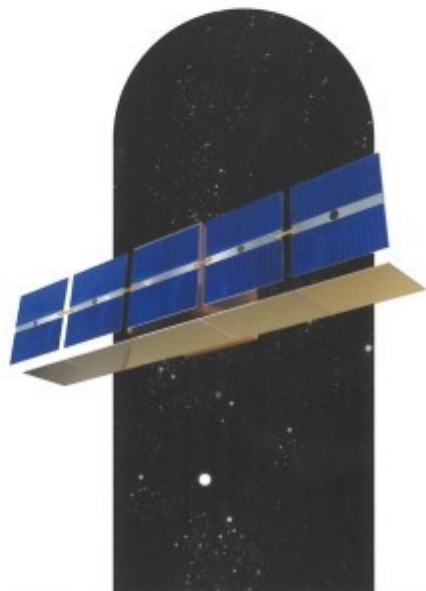


# Illuminate Earth Day and Night Any Weather

- New Space
- SAR Microsatellite
- Earth Observation



## CATIS™

### Compact Any-Time Imaging Sensor System

Space-borne Synthetic Aperture Radar



SAR Control Electronics Unit



SAR Antenna & TRM Assembly

## 01

### OVERVIEW

- 
• SAR System for 100-kg-Class Micro-satellites (High-resolution X-band and Quad-pol C-band)
- 
• Digital signal processing to minimize signal distortion
- 
• Active Electronic Scanning Antenna with Solid-State TRM Technology

## 02

### FEATURES

Operational Mode	Stripmap, Spotlight, Wide-Swath
Resolution	0.3 m @ Spotlight
Swath	230 km @ Wide-Swath
Frequency	X-band 966 GHz (Option: C-band)
Chirp Bandwidth	1.2 GHz
Antenna Type	Waveguide Slot Array
Antenna Gain	43 dBi
Transmission Output Power	3.2 kW RF Peak Power Output
Beam steering Range	-10° to +10°
Storage Capacity	2 TBytes
Data Downlink Speed	2 Gbps @ Ka-band

# SARDIP™

## SAR Data and Image Processor

Web-based SAR Data and  
Image Processing S/W Platform



### 01

#### OVERVIEW

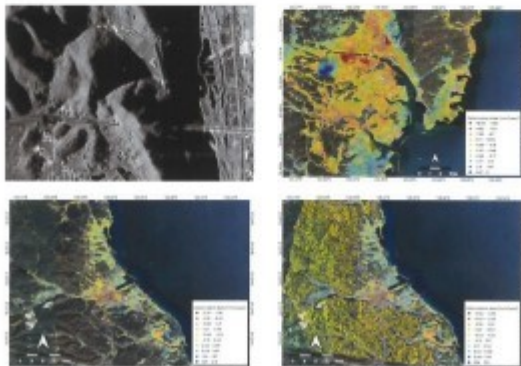


- Web-based SAR data processing service platform
- Hardware-independent tool that processes any SAR data
- Delivers intuitive solutions to users



### 02

#### PROCESSED IMAGES





Lumir has proved its excellent capability of space technology by contributing to the success of many of Korean national space development programs, focusing on the development of satellite equipment.

Lumir has acquired the certifications for satellite manufacturing processes from the Korea Aerospace Research Institute based on the ECSS standards.



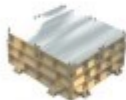
## SATELLITE EQUIPMENT



### Satellite PDS

Payload Data Transmission Subsystem

- IDHU(Image Data Handling Unit)
- XDM(X-band Downlink Module)
- Ka-band Transmitter
- Ka-band Phased Array Antenna



### Satellite Bus Component

- AOCS CMG (Control Moment Gyroscope) Controller
- TCSR OBC(On-Board Computer)



### DTNPL

- Delay Tolerant network Payload
- Korean Pathfinder Lunar Orbit(KPLO)
- Space communications Using DTN Technology

#### CONTACT US

Phone +82-31-525-3900 Email [lumir@lumir-inc.com](mailto:lumir@lumir-inc.com) Web [www.lumir-inc.com/eng](http://www.lumir-inc.com/eng)