

# MilsatMagazine

January 2017

## PUBLISHING OPERATIONS

Silvano Payne, Publisher + Writer

Hartley G. Lesser, Editorial Director

Pattie Waldt, Executive Editor

Jill Durfee, Sales Director, Editorial Assistant

Simon Payne, Development Director

Donald McGee, Production Manager

Dan Makinster, Technical Advisor

## SENIOR CONTRIBUTORS

Tony Bardo, Hughes

Simon Davies, Spectra

Richard Dutchik, Dutchik Communications

Chris Forrester, Broadgate Publications

Karl Fuchs, iDirect Government Services

Bob Gough, Carrick Communications

Jos Heyman, TIROS Space Information

Ryan Schradin, SES GS

Koen Willems, Newtec

## AUTHORS

Airman First Class Emily E. Amyotte

Crissy Pierson

Ryan Schradin

Tech. Sgt. James Stewart

Al Tadros

## DISPATCHES

### Japan's SDF Launches MHI-Built X-Band Defense Satellite

**The Japan Aerospace Exploration Agency (JAXA) and Mitsubishi Heavy Industries, Ltd., have launched an X-band defense communications satellite aboard an H-2A Launch Vehicle No.32 from JAXA's Tanegashima Space Center in Japan's southwestern Kagoshima prefecture.**

The Kirameki-2 satellite is the first communication satellite for the Japanese Ministry of Defense, which shoulders the mission to upgrade the Self-Defense Forces' (SDF) communications network.

The Kirameki-2 satellite, operating with X-band technology, is one of three defense communications satellites that will replace three civilian satellites that are presently used by the Self-Defense Forces.

The new satellites will facilitate direct communication among units of the Ground, Maritime and Air Self-Defense Forces through a high-speed and high-capacity network and serve as a communication infrastructure, local media quoted Defense Ministry officials as saying on the day of the launch.



*The JAXA launch of the Kirameki-2 satellite.*

The Kirameki-2 is designed to operate over the Indian Ocean and to serve the SDF personnel taking part in U.N. peacekeeping operations in South Sudan and the anti-piracy mission in waters off Somalia, said the officials.

In 2008, Japan's Diet approved a law on general principles for the use of space, allowing non-aggressive defense use of space and overturning a decades-old policy of limiting space development to peaceful uses.

Under the law, the use and exploitation of space should be conducted to serve the security of Japan, relaxing the principle of non-military use based on a parliamentary resolution in 1969 under the war-renouncing Constitution.

The new law changes Japan's policy of space use to "non-aggression" from "non-military" and would allow Japan's defense ministry to launch its own satellites, including surveillance satellites and an early-warning satellite.

[global.jaxa.jp](http://global.jaxa.jp)

[h2a.mhi.co.jp/en/](http://h2a.mhi.co.jp/en/)

## **TABLE OF CONTENTS**

Japan's SDF Launches MHI-Built Defense Satellite .....	2
US Government and Military Satellite Market for 2017.....	4
Datum Systems High Speed DVB S2/S2X Card Sets.....	6
TacComms Improve with PacStar.....	6
Eagle Vision Encompasses Bilateral Exchange.....	8
Study of the Future Needs of MILSATCOM .....	9
Mini, Air-Launched, Swarming UAVs .....	10
Norsat's Terminals Heading to US Defense Agency .....	11
<b>SBIRS' Sound Surveillance for National Defense</b> .....	12
<b>Top Gun Amplifiers</b> .....	26
<b>A General Dynamics SATCOM Perspective</b> by Crissy Pierson, General Dynamics Mission Systems	
<b>The HPA Corner: An Alliance Update</b> .....	28
by Al Tadros, Hosted Payload Alliance	
<b>GovSat Insights: A New Approach to MILSATCOM</b> .....	30
by Ryan Schradin, Senior Contributor	

## **ADVERTISER INDEX**

Advantech Wireless .....	7
AvL Technologies.....	cover
CPI Satcom Products .....	3
DSI — Automated ISR Symposium .....	17
Dubai World Trade Center — CABSAT .....	15
Hosted Payload Alliance.....	29
IDGA Military Radar Summit .....	11
NAB — National Association of Broadcasters.....	21
SatFinder.....	19
SMi Group — Mobile Deployable Communications.....	13
Space Foundation .....	34
Teledyne Paradise Datacom.....	9
W.B. Walton Enterprises, Ltd. ....	5

MilsatMagazine is published 11 times a year by Satnews Publishers, 800 Siesta Way, Sonoma, CA, 95476, USA  
Phone: (707) 939-9306, Fax: (707) 939-9235  
© 2017 Satnews Publishers

We reserve the right to edit all submitted materials to meet publication content guidelines, as well as for grammar and spelling errors, or to move articles to an alternative issue to accommodate publication space requirements, or remove content due to space restrictions.

Submission of content does not constitute acceptance of said material by SatNews Publishers. Edited materials may, or may not, be returned to author and/or company for review prior to publication.

The views expressed in SatNews Publishers' various publications do not necessarily reflect the views or opinions of SatNews Publishers.

All rights reserved. All included imagery is courtesy of, and copyright to, the respective companies and/or named individuals.