iX5 & iX10 ADS

Unibap provide application development systems called ADS and ODE to enable third party SpaceCloud® users to create new applications, or mission customers to get a head start in their software development.

HEAD START

Software development has always been stressful in the space industry, inherently delayed by the maturity of the hardware. ADS and ODE are made to solve this problem. They are delivered of-the-shelf directly upon order. Hence, you don't need to wait for engineering and flight models, but your software team can begin meaningful development from day one.
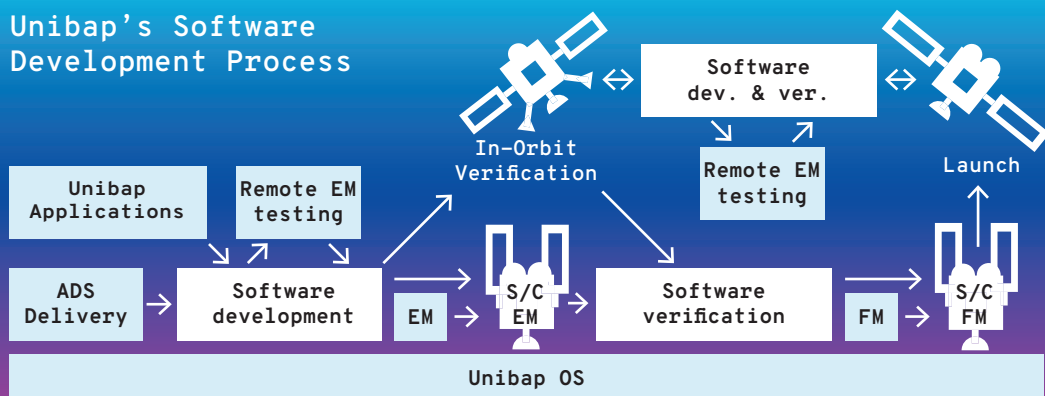
BUILDING COMMUNITY

You don't need a satellite to make space software. Unibap supports a community of software developers that create powerful space applications without operating their own flight computers or spacecraft. This far, we have helped to test more than 40 applications in space, and supported our community to find business among satellite operators.

STREAMLINED PERFORMANCE

Bringing Earth-like computing to space requires equal understanding of the opportunities of open-platform computing and the limitations imposed by the space environment. ADS an ODE offer streamlined performance with the same hardware solutions as in out space computers to healp you to build space software from the bottom up.

Unibap's Software Development Process

- Unibap Applications
- Remote EM testing
- ADS Delivery
- Software development
- EM
- In-Orbit Verification
- S/C EM
- Software dev. & ver.
- Remote EM testing
- Software verification
- FM
- Launch
- S/C FM
- Unibap OS

iX5 ADS
Application development system for the iX5 computer family.

iX10 ADS-X
Application development system for the iX10 computer family.

iX10 ADS-X2
Application development system for the iX10 computer family with both Intel Movidius Myriad X and Hailo-8 VPU.

Distribution   MOOG

Distribution in South Korea and Japan

NASAM
an ALL CLEAR company

Model Name	iX5 ADS
PROCESSING & MEMORY	
CPU	AMD Steppe Eagle
GPU	AMD Radeon
VPU	Myriad X USB Adapter
FPGA	Microsemi SmartFusion2
RAM	2 GB DDR3 ECC
Storage	2 x 128 GB SATA SSD 1 x MicroSD-Card/MMC
I/O INTERFACE	
CAN	1 x 2.0b
Graphics	1 x DP/HDMI 1 x LCD/LVDS
Ethernet	3 x 1000Tbase LAN
I2C	2 x
Serial communication	2 x RS232 4 x UART TTL
PCIexpress	1 x 4 lanes v2 (internal)
USB	2 x USB 3.0/2.0 2 x USB 2.0
SOFTWARE SUPPORT	
Operating System	Unibap OS (Linux)
Unibap Functions and Applications	Supported

Model Name	iX10 ADS-X/X2
PROCESSING & MEMORY	
CPU	AMD Ryzen V1000
GPU	8 x AMD Radeon
VPU	Myriad X USB Adapter, and Hailo-8 on iX10 ADS-X2
FPGA	Possible to slot in through PCI on ADS-W
RAM	1x16 GB DDR4
Storage	1 x 512 GB SATA SSD
I/O INTERFACE	
Graphics	DP/HDMI VGA
Ethernet	4 x PoE+ Gigabit Ethernet ports
Serial communication	3 x RS232 2 x RS485/422
USB	4 x USB 3.1
SOFTWARE SUPPORT	
Operating System	Unibap OS (Linux)
Unibap Functions and Applications	Supported