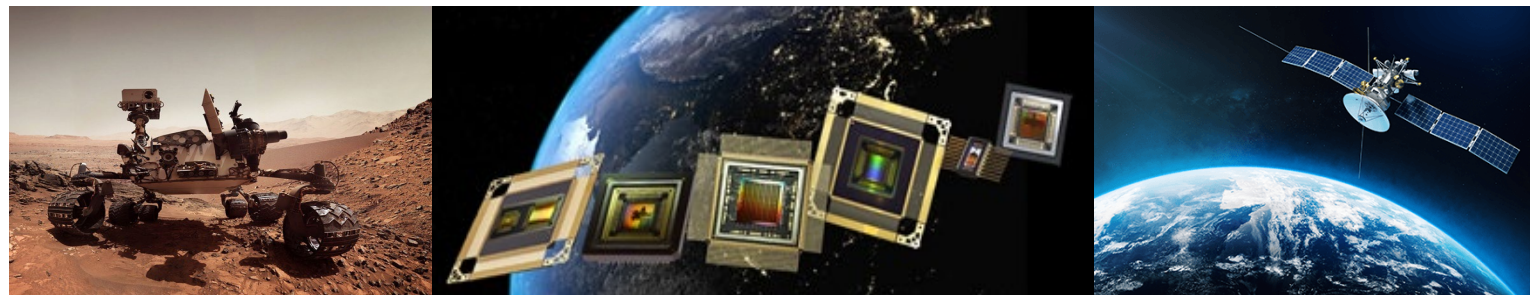


Microchip

Making Your Space Design Easier



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

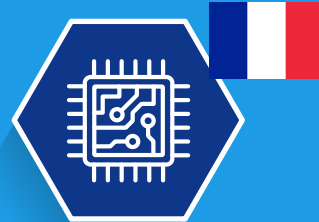
ADCSS2024 – Exhibitor Session

A Space portfolio with European Assets



Connectivity

RF Modules & Microwave Solutions



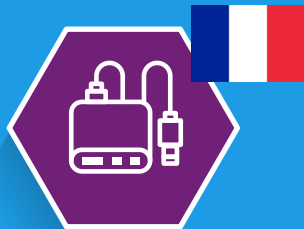
Processing

8-, 32- & 64-Bit MCUs
Microprocessors
FPGAs



Clock & Timing

Cesium Clocks
Chip Scale Atomic Clock (CSAC)
Oscillators



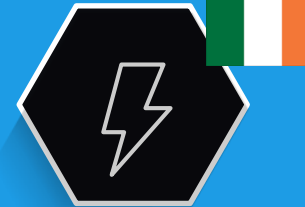
Interface & Connectivity

SpaceWire, Ethernet, CAN



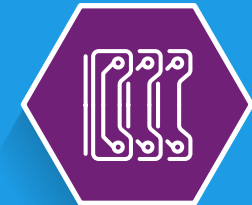
Analog & Mixed Signal

Telemetry and Motor
Control System Managers
Power Supply protection



Power Management

Power Discrettes: JANS Diodes, Bi-Polar SST,
MOSFETs
Isolated DC-DC Converter
Hybrids: Linear & POL
High Voltage Electromechanical Relays



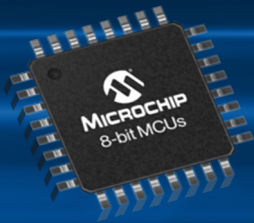
Memory & Storage

Serial & Parallel EEPROM
SRAM

Microchip's Expanding Compute Portfolio

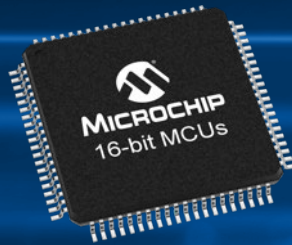
Scalable Computing at the Intelligent Edge

8-bit



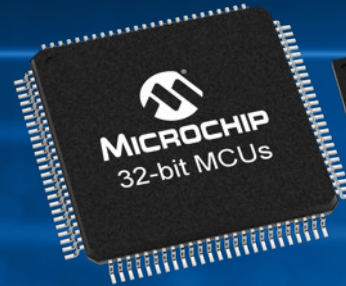
PIC® MCUs
AVR® MCUs

16-bit

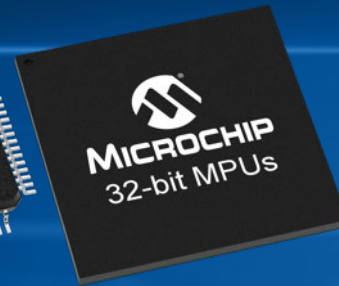


PIC® MCUs
dsPIC® DSCs

32-bit MCUs & MPUs



PIC® MCUs



SAM MPUs

PIC64 Family of 64-bit MPUs



Quad-Core
5K DMIPS



Octal-Core
TSN Switch, Vectors
Space-Grade
26K DMIPS

Scalable Processing to Enable the Intelligent Edge

Performance levels from 8-to 64-Bits

Unified software tool MPLAB®, supports migration across compute landscape and agnostic to ISA

New products Announcements

PIC64-HPSC

[Microchip Unveils Industry's Highest Performance 64-bit HPSC Microprocessor \(MPU\) Family for a New Era of Autonomous Space Computing](#)

JANxx Transistors

[Microchip Adds Military-Standard Enhanced Low Dose Radiation Sensitivity \(ELDRS\) Qualification to Its Portfolio of Small-Signal Bipolar Junction Transistors to Ensure High Reliability for Critical Applications](#)

SAMD21RT

[Microchip Expands its Radiation-Tolerant Microcontroller Portfolio with the 32-bit SAMD21RT Arm® Cortex®-M0+ Based MCU for the Aerospace and Defense Market](#)

LE50-28

[Radiation-Tolerant DC-DC 50-Watt Power Converters Provide High-Reliability Solution for New Space Applications](#)

RT PolarFire® system-on-chip (SoC) FPGA

[Radiation-Tolerant PolarFire® SoC FPGAs Offer Low Power, Zero Configuration Upsets, RISC-V® Architecture for Space Applications](#)

New integrated actuation power solution

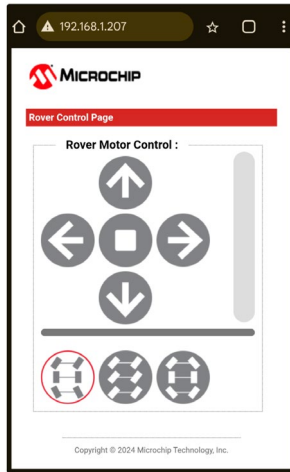
[Integrated Actuation Power Solution Aims to Simplify Aviation Industry's Transition to More Electric Aircraft](#)



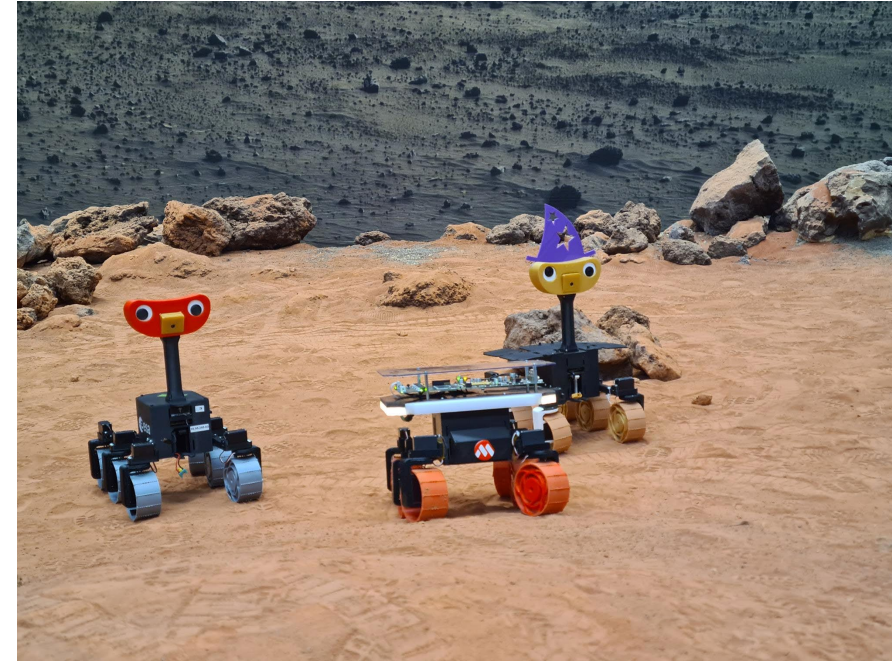
Visit us on the Microchip booth

Space Rover

ESA « ExoMy » open source design basis

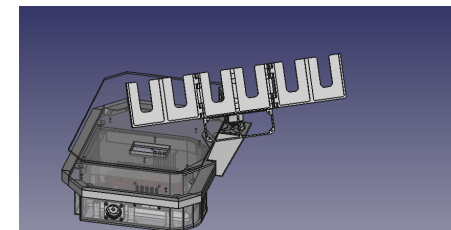


WiFi controlled
Demonstration Rover



Demonstrated in Planetary Robotics Lab @ESA boothSpace

- SAMRH71 based operations
- SAMD21RT based Solar Tracker integration on-going



Solar Tracker Modelization

