



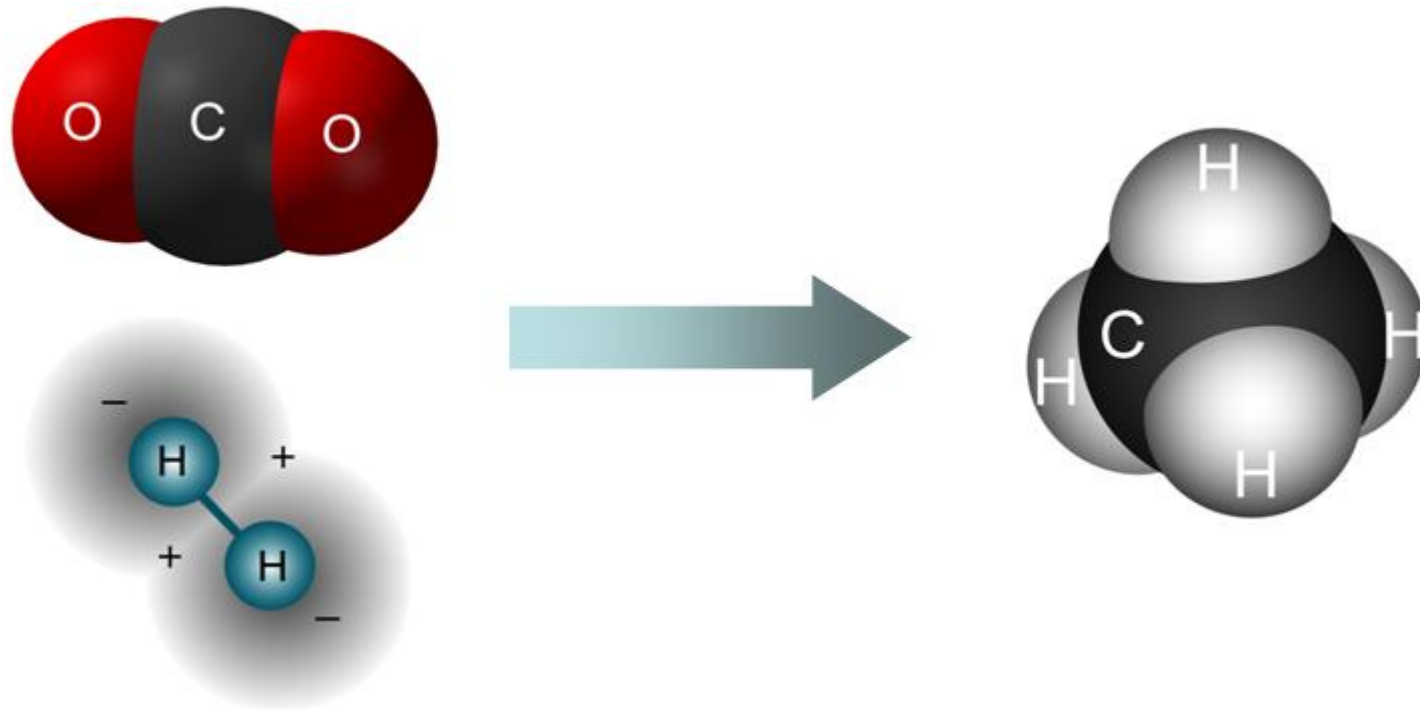
A



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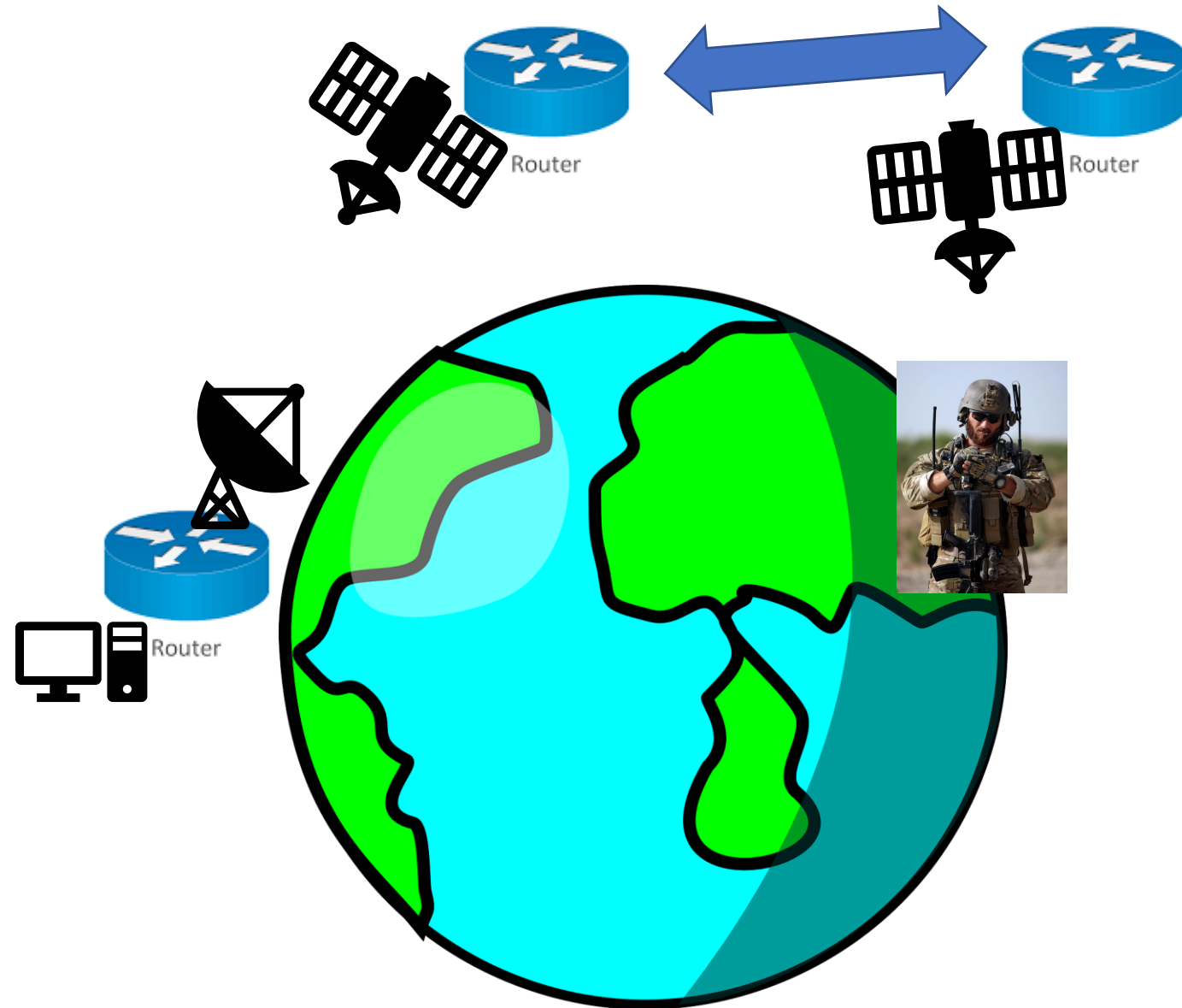
Cubesat Innovation: Gas Propulsion



Sabatier Reaction: Methane



Cubesat Internet Router enables over-the horizon communication



What is the CLEO router?

A Cisco 3251 Mobile Access Router (MAR).

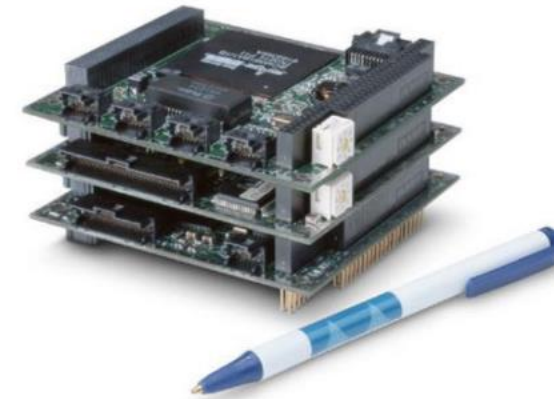
The MAR is a commercial off-the-shelf (COTS) product family – 3251 and 3220 series. Runs Cisco's IOS (Internetwork Operating System) router code – version 12.2(11)YQ.

The 3251 MAR features:

- 210MHz Motorola processor.
- Built-in 100Mbps Ethernet.
- PC/104-Plus interfaces and form factor.
- Additional stackable 90mm x 96mm cards (serial, Ethernet, power supply, WiFi, etc.)

The CLEO MAR is an experimental secondary payload on the UK-DMC satellite.

Local environment and high-speed downlink used by UK-DMC satellite dictate use of serial interface card to connect with existing 8.1Mbps serial links used onboard.



SOF Using tablet in the field connected to the cubesat internet for data communication.

