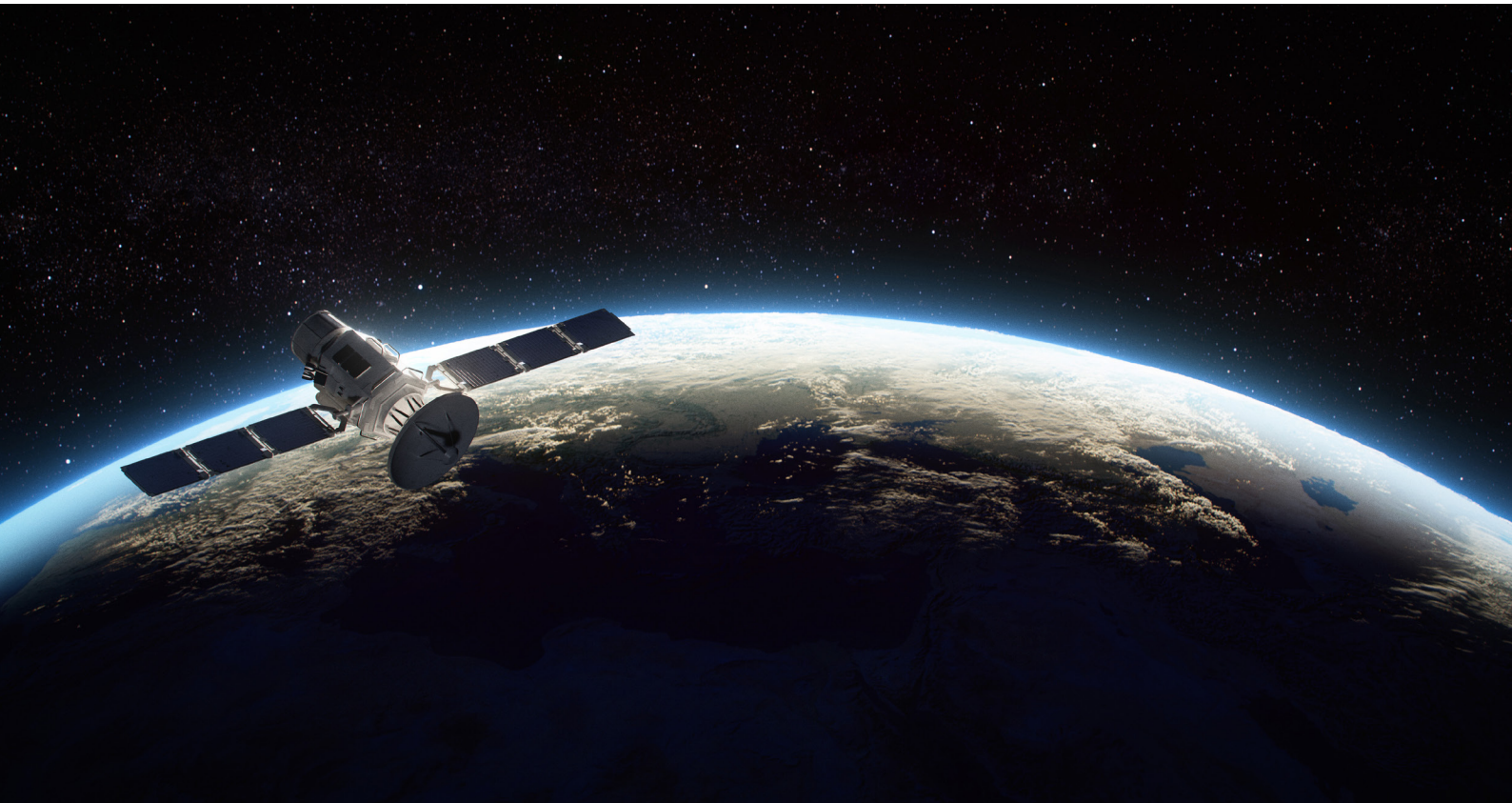


Reliable PCBs for Space – NCAB's qualification & expertise



The space industry has very high standards, and achieving success is crucial, as failure is not an option. Reliable PCBs are extremely important because they are essential for the precise performance of space systems. They need to be perfect due to high demands in this industry.

NCAB Group specializes in space PCB solutions, creating robust designs for extreme environments.

Adhering to local and global regulations, as well as federal and international guidelines, we manage the entire process from design to delivery. Using our purchasing power, product expertise, and effective factory management, we ensure reliable and compliant solutions.

Incorporating IPC-6012xS, designed for high-performance space and military PCBs, reinforces our commitment to surpassing industry standards, aligning with essential specifications in the PCB standard.

Low outgassing requirements are met through a close dialogue on customer expectations and NCAB production capabilities.

GENERAL REQUIREMENTS

- › IPC-6012 / Class 3 / IPC-6012xS / IPC-A-600
- › IPC-6018 (Microwave) / IPC-6018DS
- › ESA
- › EASA (Part 21 Subpart G)
- › ECSS-Q-ST-70-60C Corrigendum 1
- › AS9100 / AS9102
- › NADCAP

APPLICATIONS

- › Communication systems
- › Engine, hydraulic, motion and actuator controls
- › High radiation space equipment
- › Instrumentation and navigation, weather data, airspace information, aircraft data
- › Radar (naval, satellite, defense, aerospace, aircraft, etc.)
- › Transponders
- › Vision systems

DESIGN SUPPORT

With local and global regulatory bodies, along with federal and international guidelines, there are immense requirements and regulations when designing and sourcing PCBs for space.

- › Select high-quality materials for space PCBs to ensure reliability and durability.
- › In the NCAB PCB Specification, we address IPC rules, and exceed IPC class 2 requirements to ensure high reliability.
- › Conformal coating is essential in some space processes to protect electronic components from environmental factors. We have tested and certified a number of soldermask and conformal coating combinations for sufficient adhesion.
- › To ensure the costs and quality of PCBs, NCAB has created PCB design guidelines, which acts as a comprehensive checklist.
- › All local NCAB offices include dedicated specialists who work with you to understand your requirements and those of the product.

QUALITY

The NCAB Group Factory Management teams plays a key role in our quality and sustainability work related to partner factories.

- › Our factories are systematically sourced and only used for technologies where they excel.
- › We have our own staff in factories providing proactive quality assurance and on-time deliveries.
- › Our quality engineers are directly responsible for the factories' performance, as well as for building relationships and working proactively with them to achieve improvements.
- › Our QC engineers confirm that the PCBs are manufactured and verified according to NCAB specifications.
- › Quality audits are performed each year in all main factories, and all main factories also undergo a sustainability audit.

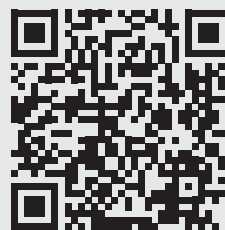
ABOUT US

For more information about printed circuit boards for the aerospace industry, scan this QR code.

Interested in our **sustainability** work? An integral part of our business approach, our aim is to identify opportunities for our customers to drive positive change and minimize negative impacts. To read more about our sustainability work – [explore our sustainability page](#).

If you have questions about our PCBs reliability or if you need design support, don't hesitate to contact us.

www.ncabgroup.com/contact



Scan me!

