



CYIENT

# DRIVING INNOVATION AND GROWTH IN AEROSPACE & DEFENSE WITH INTEGRATED MANUFACTURING SOLUTIONS

Improve product quality, reliability, and time-to-market while focusing on cost efficiency

## Overview

Forecasts indicate that the worldwide commercial passenger and cargo aircraft fleet, as well as passenger numbers, are going to double over the next two decades. At the same time, international demand for defense and military products is increasing due to uncertainties brought about by regional tensions—as a result of the growing defense budgets of countries facing sovereign security threats. As a result, aerospace and defense (A&D) original equipment manufacturers (OEMs) are reassessing their business models, and have shifted their focus to leveraging new ways to design, build, and maintain technologically advanced aircraft and defense equipment to meet this rising demand and remain competitive in the industry. However, techno-commercial challenges, including price pressure from suppliers, margin pressure from the market, barriers to entering new markets, increasing and stringent regulations,

and operational inefficiencies that impact the cost of operations continue to persist.

A&D OEMs are encouraged to identify a different approach to new product innovation that will help them realize their business objectives. The challenge, however, is figuring out how to adopt new manufacturing capabilities to meet growth opportunities, while remaining competitive in the industry.

## Cyient: Your Integrated Design-Led Manufacturing Partner

Cyient is a leading provider of design, engineering, and manufacturing services—ranging from concept to development and aftermarket support. We help our clients transition the product life cycle from design to build to maintain, with a focus on delivering significant operational and cost value. We achieve this by leveraging an integrated manufacturing approach.

### Our services portfolio includes:



#### DESIGN

- Mechanical systems and structures:
  - Design and development
  - Manufacturing process engineering
  - Certification support
- Avionics: Complete HDLC and SDLC
  - Planning (SOI#1)
  - Development (SOI#2)
  - Validation and verification (SOI#3)
  - Final certification review (SOI#4)



#### BUILD

- Manufacture of
  - Electronic LRM/LRU and circuit card assemblies
  - Complex over-molded wire and cable harness assemblies
  - Design and development of automated test equipment
  - Precision-machined components down to 10 microns tolerance
  - Aftermarket manufacturing support



#### MAINTAIN

- From forecasting maintenance needs to technical support and repair engineering
- Aircraft health management
- Operability enhancements using big data
- Product upgrades and obsolescence

## Cyient Advantage

As an electronic manufacturing services provider, Cyient has been integrating design, build, and manufacturing capabilities across multiple industries for more than 25 years. In fact, Cyient is the only integrated design, build, manufacturing, operations and maintenance solutions provider with expertise co-developing solutions customized to specific design and manufacturing requirements, with on-site support. With Cyient as your value-added partner, you can:

- **Reduce costs** arising from manufacturing challenges with our obsolescence management services
- **Minimize product cost** with our value engineering recommendations
- **Leverage** efficient design, component, and production processes
- **Improve operational efficiency** with our wide range of solution offerings
- **Simplify vendor relationships** by working with a leading, well-established, risk-sharing partner covering the A&D life cycle
- **Benefit** from a seamless transition, from the design phases through the manufacturing phase

### Areas of expertise

- New product introduction and value engineering/re-engineering
- Design for Excellence and printed circuit board assemblies
- System build and product assembly
- High-precision machining, plastic injection molding, and additive manufacturing (plastic and metal)
- Robust supply chain ecosystem and localization
- Strong engineering process for electronic manufacturing
- Embedded software and hardware, including avionics and electrical systems

**CYIENT'S AEROSPACE AND DEFENSE PRACTICE HAS BEEN RATED IN THE LEADERSHIP ZONE BY THE ZINNOV ZONES FOR PRODUCT ENGINEERING SERVICES REPORT FOR FIVE CONSECUTIVE YEARS.**

### Credentials

- We are the first integrated manufacturing services provider in India to obtain AS9100-C aerospace certification.
- All of our assemblies conform to J-STD-001E and IPC-A 610 E Class III/II standards. In addition, we are RoHS, WEEE, REACH, and CE compliant; and our associates are trained in J-STD-001D, IPC-A-610, and IPC-7711/21 standards.
- Our additional accreditations include: ISO-9001:2008, Nadcap, and industrial licenses to manufacture defense equipment and assemblies.

## About Cyient

Cyient (Estd: 1991, NSE: CYIENT) provides engineering, manufacturing, geospatial, networks, and operations management services to global industry leaders. We leverage the power of digital technology and advanced analytics capabilities, along with domain knowledge and technical expertise, to solve complex business problems. As a Design, Build, and Maintain partner, we take solution ownership across the value chain to help our clients focus on their core, innovate, and stay ahead of the curve.

Relationships lie at the heart of how we work. With more than 14,000 employees in 21 countries, we partner with clients to operate as part of their extended team, in ways that best suit their organization's culture and requirements. Our industry focus spans aerospace and defense, medical, telecommunications, rail transportation, semiconductor, utilities, industrial, energy, and natural resources.

For more information, please visit [www.cyient.com](http://www.cyient.com)

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