NAPROTEK™ | SemiGen

INNOVATIVE ELECTRONICS
BOX BUILD

Strength in Flexibility with High-Velocity Manufacturing

Design & Planning

> Define the product's specifications, features, and requirements

> Create detailed assembly and manufacturing instructions

Component Procurement

> Source and procure all necessary components, including PCBs, connectors, switches, displays, cables, power supplies, and any other electronic parts required for the product

Pre-Assembly Preparation

> Prepare the enclosure or box that will house the components

> Prepare any necessary mechanical components, such as fasteners, brackets, and mounting hardware

Component Installation

> Assemble the printed circuit boards and other electronic components into the enclosure following the assembly instructions

> Secure components in place using appropriate methods, such as screws, clips, or adhesives

Cable & Wire Harness Assembly

> Route and connect cables and wire harnesses between components per design

> Secure cables / wires to prevent interference, ensuring proper cable management

Power Supply Integration

> Integrate power supplies, batteries, and charging circuits if required

> Ensure proper connections and safe integration of power sources

Mechanical Assembly

> Assemble any mechanical parts required for the final product, such as housing, covers, and structural components

> Secure mechanical components using appropriate fasteners

Calibration & Testing

> Calibrate sensors and components that require precise measurements

> Perform functional testing ensuring all components are working

> Conduct electrical testing to verify proper connections and functionality

Quality Control

> Inspect the assembled product for any defects, errors, or discrepancies

> Ensure that the product meets quality standards and specifications

State-of-the-art Facilities

West Coast | San Jose, CA

Sq-Ft	55,000
SMT Lines	7
Inspection	AOI, FP, SPI, X-Ray, ICT
Clean Room	Class 10k
Box-Build	Yes
QMS	Yes
ITAR	Yes

East Coast | Londonderry, NH

Sq-Ft:	43,000
MicroE Cells	4
Inspection	XRF, X-Ray
Clean Room	Class 10k (15k sq-ft)
RF Products	Yes
Foundry	Yes
QMS	Yes
ITAR	Yes

Certfications and Standards

CERTIFICATIONS

Aerospace
» AS9100:2016, Rev D

Defense
» Cybersecurity: CMMC
» NIST 800-171

International Standards
» ISO9001:2015

Medical Devices
» ISO 13485: 2016

MIL/ AERO REGISTRATIONS

ITAR
» International Traffic in Arms Regulations

SAM
» Systems for Award Management

OASIS
» Online Aerospace Supplier Information System

GIDEP
» Government Industry Data Ex change Program

INDUSTRY STANDARDS

» IPC-A-600
» IPC-A-610
» IPC-WHMA-A-620
» J-STD-001 (Including Space Addendum)
» ANSI/ESD S2020
» MIL-STD-750, 883, 1686C
» MIL-PRF-38534, 38535,19500

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