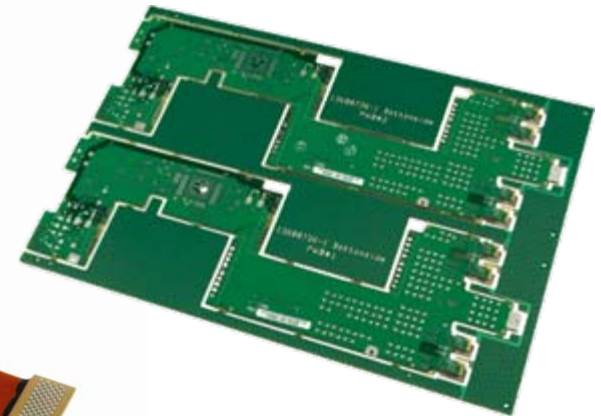
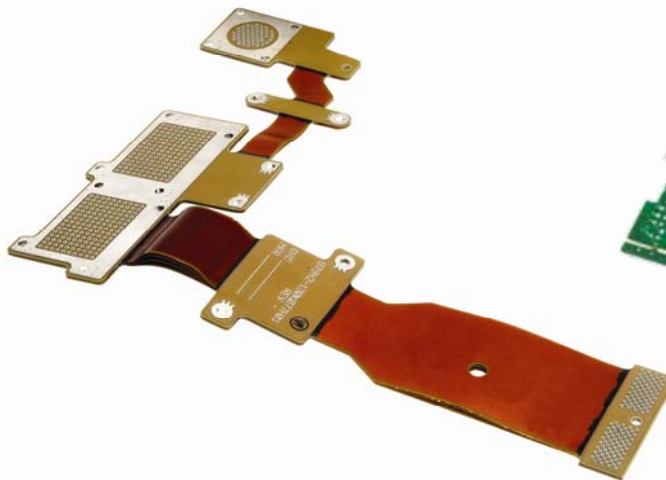
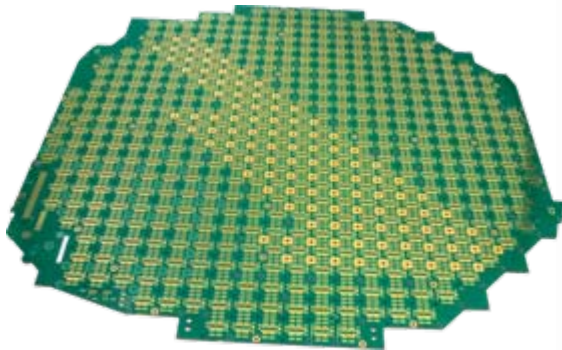
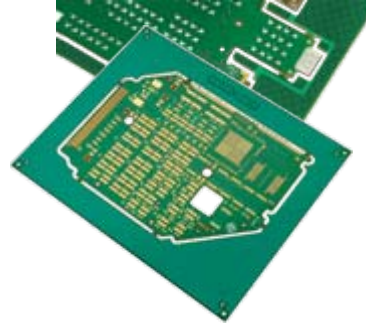
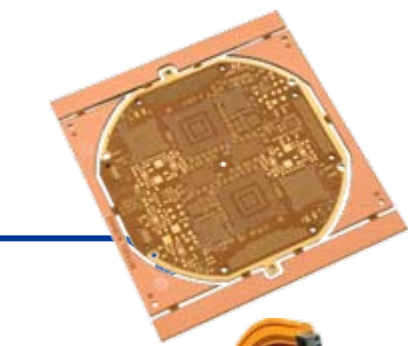
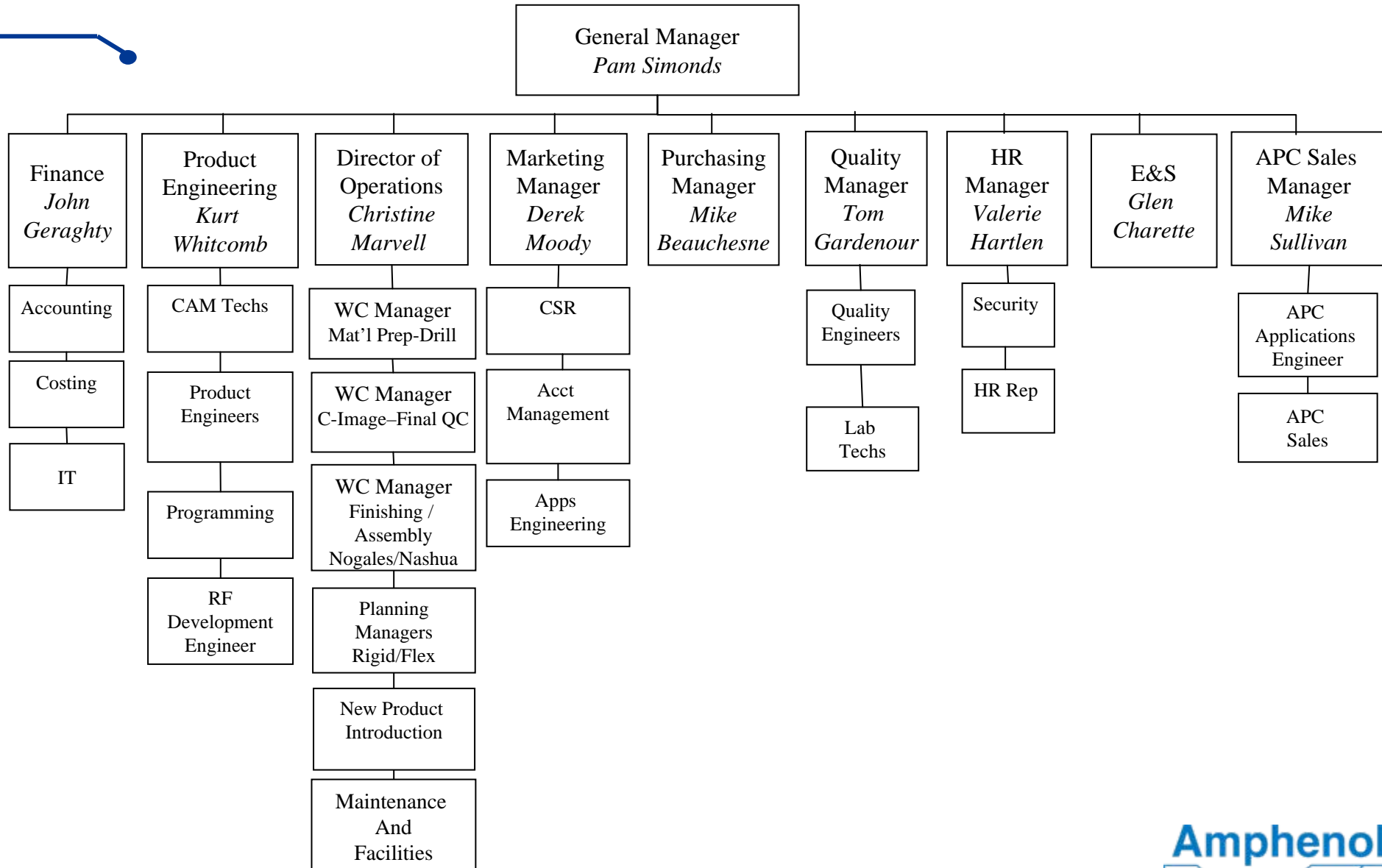


# Amphenol Printed Circuits



# Organization Structure



# Amphenol Printed Circuits



- Nashua, New Hampshire
- 214,000 square feet
  - Manufacturing 182,000 sq ft
    - ◆ Test 7,000 sq ft
    - ◆ QC 8,000 sq ft
- Continuous operation since 1978
- Certifications:
  - ISO 9001:2000
  - AS9100
  - ISO 14001:1996
  - MIL-PRF-31032/1A, /2
  - MIL-P-55110
  - MIL-P-50884 Types 1-V
  - ITAR Registered
  - IPC-A-600 – Class I, II, III
  - IPC-6012 – Class I, II, III
  - IPC-6013 – Class I, II, III



14,000 square foot, Class 10,000 clean room

**Amphenol**  
Printed Circuits



# Understanding Our Market and Customers

Suppliers are recognized by the customers they have.



Naval Systems 10%



Ground Systems 25%



Mil Avionics 35%



C4I 20%



Commercial Aircraft 5%



Space 5%

**Raytheon**

**BAE SYSTEMS**

**LOCKHEED MARTIN**

**NORTHROP GRUMMAN**

**CISCO**

**GENERAL DYNAMICS**

**NORTEL**

**Rockwell**  
Electronic Controls and Communications

**TEXTRON**

**smiths**

**GOODRICH**

**ViaSat**

**IAI**  
ISRAEL AIRCRAFT INDUSTRIES LTD

**BOEING**

**Honeywell**

**Amphenol**  
Printed Circuits

# Printed Circuit Capabilities



## Unique Panel Sizes

24" x 54"

30" x 44"

36 x 42"



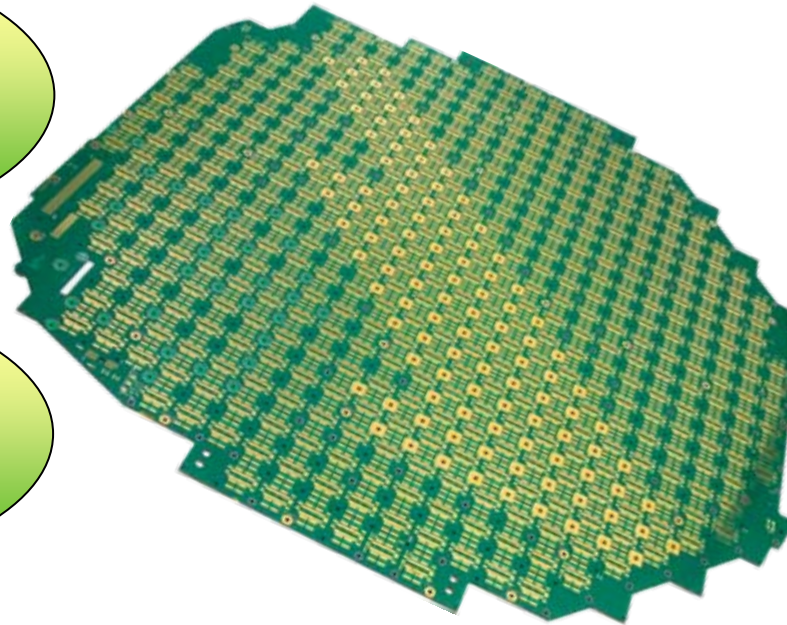
## Interconnects

Blind & Buried

Back Drilling

Depth Drilling

Laser



## Materials

Polyimide

RF

Nelco

High & Low Tg

## Assembly Options

Low Cost ITAR Compliant

Mexico Assembly

Facility

## Assembly Options

Flex Assemblies

Through Hole

Wave

SMT

Potting

Conformal Coating

Full Testing

# New Products



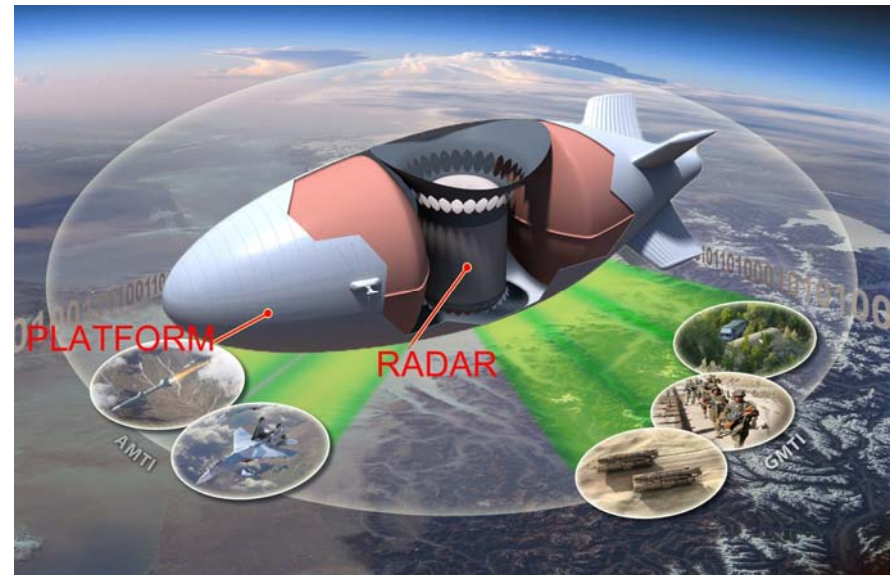
RF – With \$1,000,000 invested in 2009 APC has installed Gold/Nickel plating as well as high temperature presses to accommodate RF needs



Lamination

## Over Sized Flex

- Rigid and Multi-layer flex being processed on 54” long panels
- Circuit Sizes at this point are 28” x 54”
- Processing Polyimide and LCP



**Amphenol**  
Printed Circuits

# Technology Roadmap



		Technology Roadmap				
		6 Months	1 Year	2 years	5 Years	
Products	RF	High Speed RF Boards				
		High Layer Count RF Boards		High Speed Material Development		
	High Temp Flex	High Temp 300°C		Extreme High Temp 400°C		
		HDI Overview				
	HDI	High density BGA's		Chip on Board & Micro BGA Patterns		
				High Speed Low Loss Signal		
Materials	Rigid Laminates	Low Cost FR408 Asian & HR				
		High Speed Rogers 3000 & 6000; Taconic TLG29 & 30				
		Cisco, HP & Nortel Qual Megtron 6 & 4 & IS 680				
	Flex Laminates		Sputtered Copper			
		LCP - Rogers Processing	DuPont High Speed High Temp Processing			
		Off Shore Low Cost Materials				
Methods	Processes	Lamination Upgrade				
		Enhance Layer & Sub Registration XACT PCB Reg Software				
		Thin Cu Processing - >1/4 oz				
			Via Fill In-House			
		ENIG				
		High Speed Test Capabilities				
			Additional Flying Probe Capacity/Capability			
		Automated Wave Soldering				
Automated Conformal Coating						
Space and weight continue to drive packaging smaller while adding more features, High Speed materials and technologies such as RF and HDI allows us to participate on the next generation of printed circuit interconnects						
ENIG and Via Fill in house capabilities decrease turn times and increase cost competitiveness						
Working with our core material suppliers will enable us to manufacture cutting edge speeds and temperature for next generation systems						
Working with equipment that is in place in Mexico will allow us to reduce our cost and increase our yields to drive more value to our customers						