Radar Block Diagram

Historically, radar system designers selected various components from different suppliers without the ability to accommodate how they interact. CPI BMD has a successful history of providing additional functionality to receiver protectors, by integrating passive and active components into a single, Integrated Microwave Assembly (IMA).

CPI BMD produces a compact, more efficient integrated component, by optimizing performance, reducing development costs and ultimately, providing increased functionality to the end product.

This Radar Block Diagram depicts the various building blocks of a typical radar system that CPI BMD is capable of integrating to fit your design needs.

Ask us about integrating your designs today.

With a history of producing high power, high quality products, we can help you with your SSPA questions. Contact us at BMDMarketing@cpii.com or call us at +1 978-922-6000.

Communications & Power Industries
Integrated Microwave Assemblies

Receivers
Attenuators
Upconverters
Downconverters
Integrated Front Ends
Pulse Compressors
Assemblies

Radar Block Diagram
CPI Beverly Microwave Division (BMD) has extensive experience in the design and development of integrated microwave assemblies. Each integrated design uses a mixture of electrical and mechanical design tools to optimize the performance, weight, heat transfer and mechanical stability under harsh environmental conditions. Each design utilizes proven technology to develop a custom module around a customer’s requirements.

Applications:
- Missile seekers
- Airborne radar and EW
- Unmanned aerial vehicles (UAV)
- Ground based systems
- Naval radar
- Air traffic control

Receivers
- Available in frequencies: L, S, C, X, Ku, Ka Bands
- Low noise figures
- Digital gain control
- Linearized RF attenuation
- Very high dynamic range
- Switched IF filter
- Dual-conversion radar receivers
- Fast recovery time

Absorptive High Power Integrated Assemblies
- Highly selective filter
- Low noise figures
- Fast recovery time

Digital Attenuators
- Available in frequencies: L, S, C, X, Ku, Ka Bands
- Low insertion loss
- Digital / Analog control
- Fast switching time
- Available with waveguide or coax interfaces

For more IMA products:
www.cpii.com/bmd

Check out all our Integrated Microwave Assemblies at www.cpii.com/bmd

Pulse Compressor Assemblies
- Available in frequencies: L, S, C, X, Ku, Ka Bands
- Low noise figures
- Digital gain control
- Very high dynamic range
- Switched IF filter
- Dual-conversion radar receivers
- Fast switching time

Upconverters / Downconverters
- Available in frequencies: L, S, C, X, Ku, Ka Bands
- High spurious rejection
- Adjustable filter bandwidth
- Gain control
- RF gating capability

High Power Integrated Assemblies
- Fast recovery time
- Low noise figures
- BITE Circuits

Integrated Front Ends
- Frequency range: 10 kW to 100 kW
- Low noise figure
- High power handling
- Multifunction capability

Integrated Microwave Assemblies
CPI Beverly Microwave Division (BMD) has extensive experience in the design and development of integrated microwave assemblies. Each integrated design uses a mixture of electrical and mechanical design tools to optimize the performance, weight, heat transfer and mechanical stability under harsh environmental conditions. Each design utilizes proven technology to develop a custom module around a customer’s requirements.