

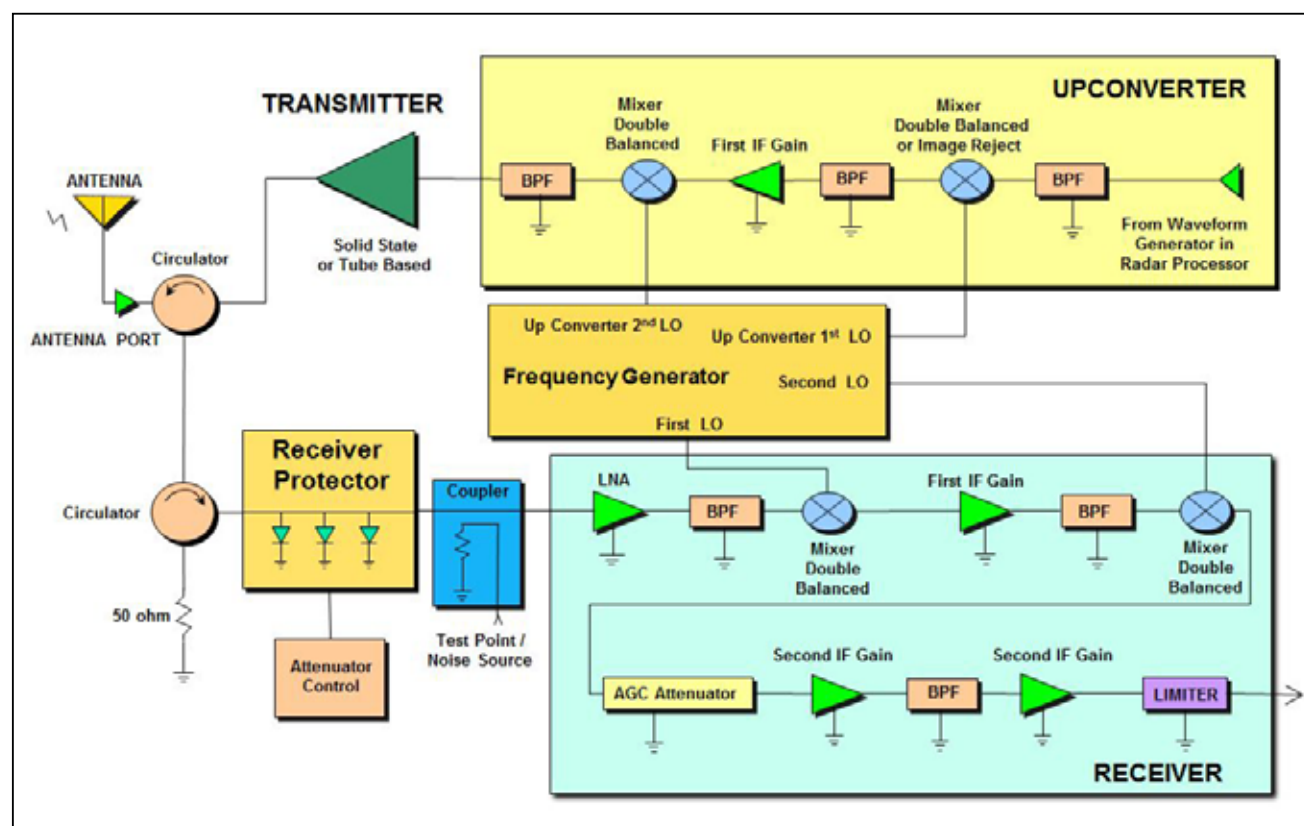
# Integrated Microwave Assemblies

## 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@cpil.com](mailto:BMDMarketing@cpil.com) or at call us at +1 978-922-6000

## Communications & Power Industries Integrated Microwave Assemblies

- Receivers
- Attenuators
- Upconverters
- Downconverters
- Integrated Front Ends
- Pulse Compressors
- Assemblies



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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## Communications & Power Industries IMA Radar Products

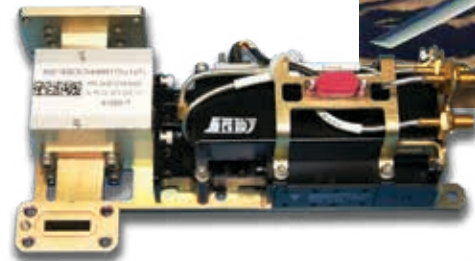
### Receivers

- 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



### Applications:

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

### 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.



### 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](http://www.cpii.com/bmd)

## Check out all our Integrated Microwave Assemblies at [www.cpii.com/bmd](http://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

