



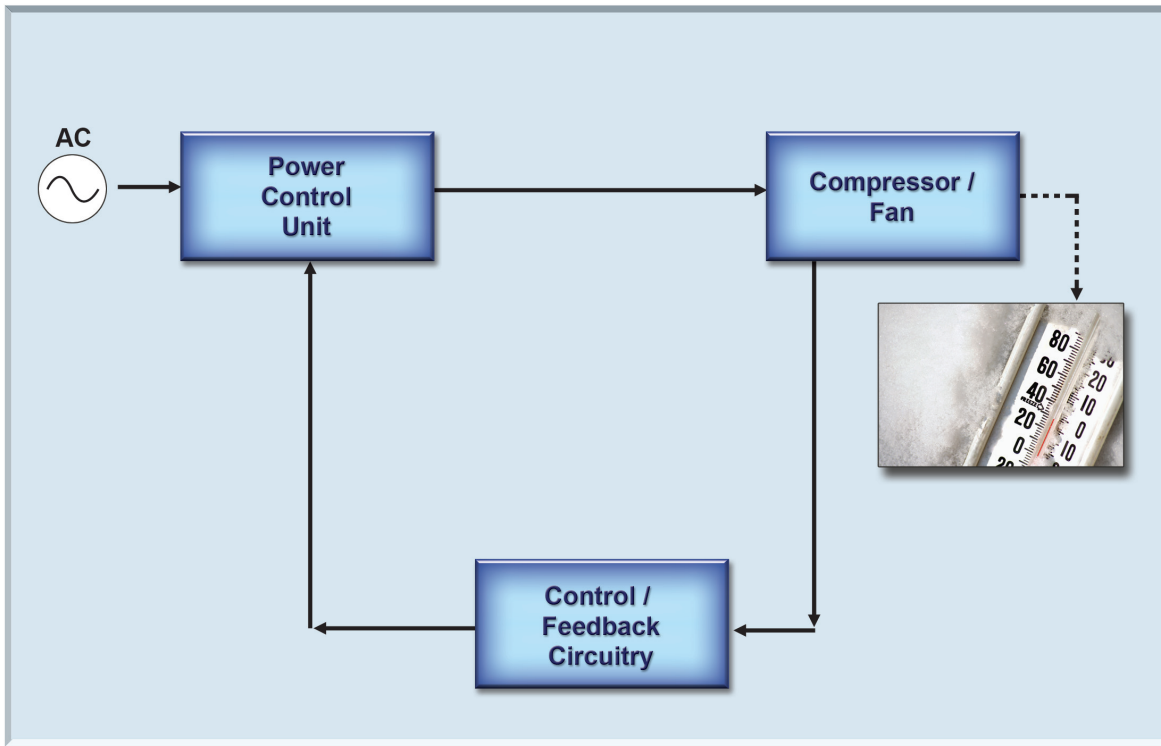
## External Air Conditioner Unit



Modern air conditioning units place a premium on the efficient delivery of cool air. Central Semiconductor manufacturers discrete semiconductor devices that satisfy the energy conscious demands placed upon higher and lower power semiconductor components needed in these new energy efficient systems.





For more information visit: [www.centrasemi.com/product/acunit](http://www.centrasemi.com/product/acunit)

### External Air Conditioner Unit Topology






#### Power Control Unit




##### • Rectifiers

-  – CMR5H-06: 5A, 600V, 25ns HyperFast Rectifier (SMC)
-  – CHD8-06: 8A, 600V, 25ns HyperFast Rectifier (DPAK)
-  – CTLHR10-06: 10A, 600V, 25ns HyperFast Rectifier (TLM364)
-  – CUD10-06: 10A, 600V, 35ns Ultra Fast Rectifier (DPAK)

##### • MOSFETs

-  – CDM4-650: 4A, 650V, N-Channel (DPAK)
-  – CDM7-650: 7A, 650V, N-Channel (DPAK)
-  – CDM22010-650: 10A, 650V, N-Channel (TO-220)

##### • Transient Voltage Suppressors (TVS)

-  – P6KE400CA: 600W, 342V (stand-off), bi-directional TVS (DO-15)
-  – 3SMC170CA: 3kW, 170V (stand-off), bi-directional TVS (SMC)
-  – 5SMC170A: 5kW, 170V (stand-off), bi-directional TVS (SMC)

For more information visit: [www.centrasemi.com/apps/pcu20](http://www.centrasemi.com/apps/pcu20)

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Use QR reader for direct link to application web page.





Industrial

# External Air Conditioner Unit

## Control / Feedback Circuitry

### • Schottky Rectifiers

- CMDSH05-4: 0.5A, 40V (SOD-123)

- CMLSH05-4: 0.5A, 40V (SOT-563)

### • MOSFETs

- CMLDM7005: 20V, 650mA Dual N-Channel (SOT-563)

- CMLDM8005: 20V, 650mA Dual P-Channel (SOT-563)

- CMPDM203NH: 20V, 3.2A N-Channel (SOT-23F)

### • Switching Diodes

- CMOD4448: 250mA, 100V (SOD-523)

- CMHD2003: 2200mA, 250V (SOD-123)

For more information visit: [www.centrasemi.com/apps/cfc20](http://www.centrasemi.com/apps/cfc20)



## Compressor / Fan

### • TRIACs

- CQ220I-8M: 8A, 600V (TO-220)

- CQDD-8M: 8A, 600V (D<sup>2</sup>PAK)

- CQDD-8N: 8A, 800V (D<sup>2</sup>PAK)

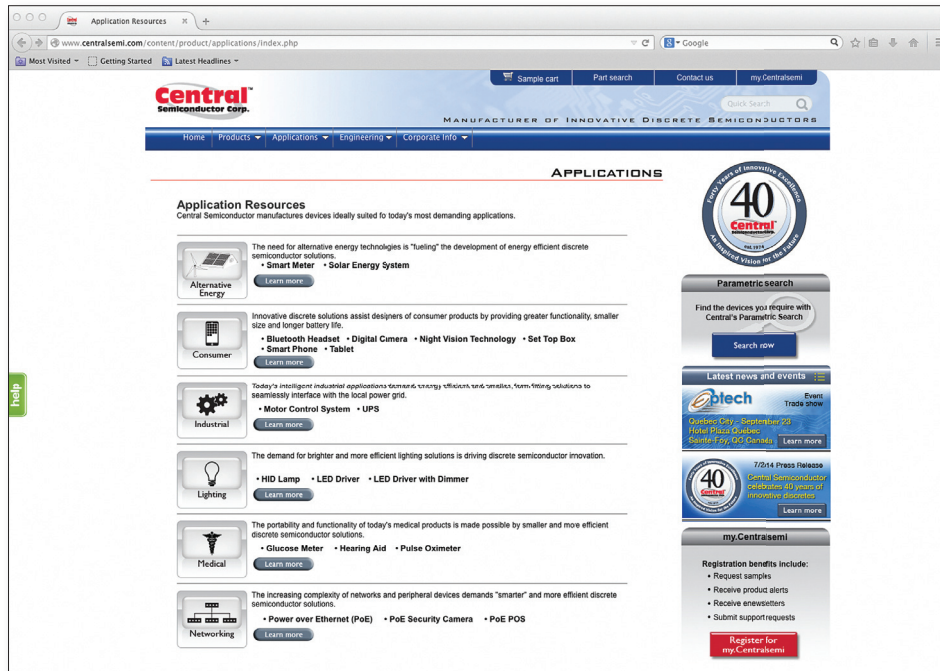
- CQDD-12M: 12A, 600V (D<sup>2</sup>PAK)

For more information visit: [www.centrasemi.com/apps/cf80](http://www.centrasemi.com/apps/cf80)



## Applications Resources

Central Semiconductor's online Application Resources provide designers with an insightful overview of devices designed to meet the requirements of specific end product applications.



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Use QR reader for direct link to Application Resources web page.



**Innovative Discrete Semiconductors**

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