



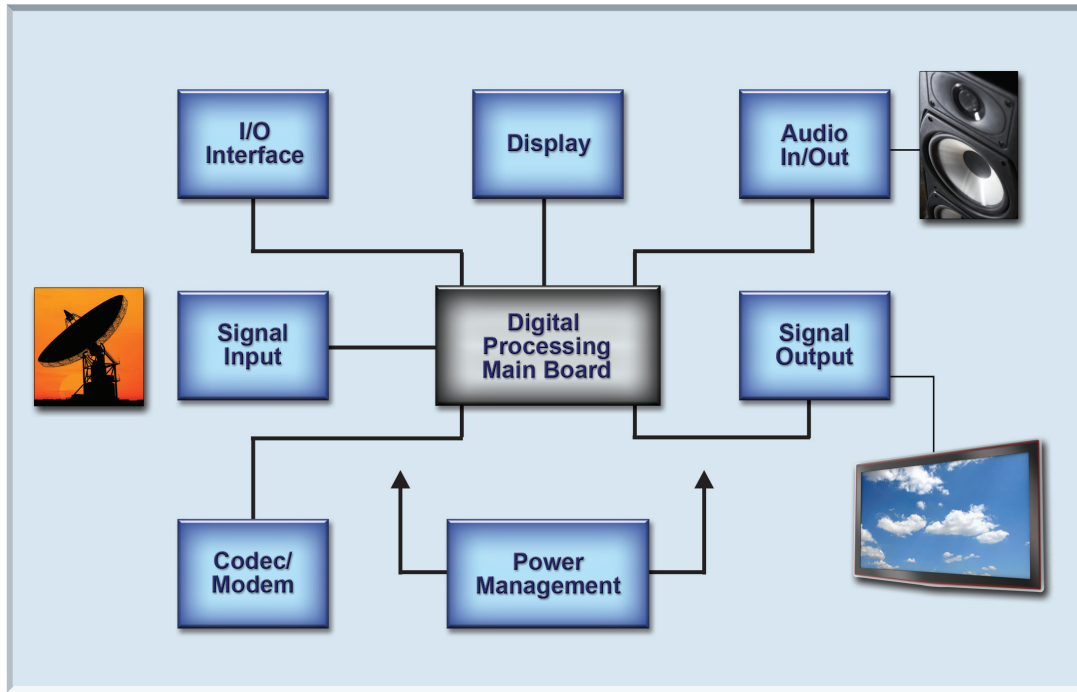
Set Top Box



Today, digital set-top boxes serve as a communications hub in the home by integrating programming, VoIP, web browsing, recording and video on demand. Central Semiconductor has a broad offering of energy efficient, fast switching and low capacitance products designed to meet the ever-increasing data rates and functionality of set-top boxes.

For more information visit: www.centrasemi.com/product/settopbox

Set Top Box Topology



I/O Interface

• Transient Voltage Suppressors Uni-polar

- CMF5.0A thru CMF12A: 200W, 5.0V thru 12V (SOD-123F)

• ESD Transient Voltage Suppressors

- CSL05D: Dual, 400W, 5.0V Low Capacitance (SOT-23)
- CMPLC1V5D: Dual, 50W, 1.5V Low Capacitance (SOT-23)

- CMATVS3V3: 80W, 3.3V Single line (SOD-923)

• TVS/Zener Arrays

- CMNTVS12V: 18W, 12V Quad Zener Array (SOT-953)
- CMXTVS5-4: 5.0V, Low Capacitance, 4 line ESD TVS array (SOT-26)

• Low Leakage Diode

- CMKD3003DO: Dual, 200V, 200mA Isolated Opposing, (SOT-363)

For more information visit: www.centrasemi.com/apps/oi9

Display

• MOSFETs

- CMPDM302PH : 30V, 2.4A P-Channel (SOT-23F)
- CMLDM7005: Dual, 20V, 650mA N-Channel (SOT-563)

• Small Signal Transistors

- CMUT3904: 200mA, 40V NPN (SOT-523)
- CMUT3906: 200mA, 40V PNP (SOT-523)

• Schottky Diode

- CMKSH-3T : Triple Isolated 30V, 100mA (SOT-363)

• Zener Diodes

- CMDZ3V3 thru CMDZ12V : 3.3V-12V, 250mW (SOD-323)

For more information visit: www.centrasemi.com/apps/d9

weblink scan

Use QR reader for direct link to application web page.





Consumer

Set Top Box

Audio In/Out

• Small Signal Transistors



- CMPT3904: 40V, 200mA NPN (SOT-23)
- CMPT3906: 40V, 200mA PNP (SOT-23)
- CZT31C: 100V, 3.0A NPN (SOT-223)
- CZT32C: 100V, 3.0A PNP (SOT-223)

• Diode



- CMPD4150: 50V, 250mA Switching (SOT-23)

• Zener Diodes



- CMHZ5226B thru CMHZ5242B: 3.3V-12V, 500mW (SOD-123)

For more information visit: www.centrasemi.com/apps/aio9

Signal Input

• MOSFETs



- CMPDM7120G: 20V, 1A N-Channel (SOT-23)
- CMPDM8120: 20V, 850mA P-Channel (SOT-23)

• Small Signal Transistors



- CMPT3904: 40V, 200mA NPN (SOT-23)
- CMPT3906: 40V, 200mA PNP (SOT-23)

• Diode



- CMPD4150: 50V, 250mA Switching (SOT-23)

• Zener Diodes



- CMHZ5226B thru CMHZ5242B: 3.3V-12V, 500mW (SOD-123)

• ESD Transient Voltage Suppressors



- CSL05D: Dual, 400W, 5.0V Low Capacitance (SOT-23)
- CMPLC1V5D: Dual, 50W, 1.5V Low Capacitance (SOT-23)
- CMXTVS5-4: 5.0V, Low Capacitance, 4 Line ESD TVS Array (SOD-923)

For more information visit: www.centrasemi.com/apps/si9

Power Management

• MOSFETs



- CMPDM302PH: 30V, 2.4A P-Channel (SOT-23F)
- CMLDM7005: 20V, 650mA Dual, N-Channel (SOT-563)

• Small Signal Transistors



- CMPTA42: 300V, 500mA, NPN (SOT-23)
- CMPTA92: 300V, 500mA, PNP (SOT-23)

Signal Output

• MOSFETs



- CMPDM8120: 20V, 850mA P-Channel (SOT-23)
- CMUDM7005: 20V, 650mA N-Channel (SOT-523)

• Small Signal Transistor



- CMPT3904: 40V, 200mA NPN (SOT-23)

• Diode



- CMPD4150: 50V, 250mA Switching (SOT-23)

• Current Limiting Diode (CLD)



- CMJ4500: 4.5mA, 3.7V (SOD-123FL)

• ESD Transient Voltage Suppressors



- CSL05D: Dual, 400W, 5.0V Low Capacitance (SOT-23)
- CMXTVS5-4: 5.0V, Low Capacitance, 4 Line ESD TVS Array (SOD-923)

For more information visit: www.centrasemi.com/apps/so9

Codec/Modem

• MOSFET



- CMPDM7002AG: 60V, 280mA N-Channel (SOT-23)

• Diode



- CMPD4150: 50V, 250mA Switching (SOT-23)

• ESD Transient Voltage Suppressors



- CSL05D: Dual, 400W, 5.0V Low Capacitance (SOT-23)
- CMPLC1V5D: Dual, 50W, 1.5V Low Capacitance (SOT-23)
- CMXTVS5-4: 5.0V, Low Capacitance, 4 Line ESD TVS Array (SOD-923)

For more information visit: www.centrasemi.com/apps/cm9

• Schottky Rectifiers



- CMSH3-200MHV: 200V, 3.0A (SMB)
- CMSH5-200HV: 200V, 5.0A (SMC)

• Bridge Rectifiers Full Wave



- CBRHD-06: 600V, 500mA (HD DIP)
- CBR1-D060S: 600V, 1.0A (SMDIP)

• Transient Voltage Suppressor



- 3SMC170CA: 3000W, 170V Bi-Directional (SMC)

• Zener Diodes



- CMHZ5226B thru CMHZ5242B: 3.3V-12V, 500mW (SOD-123)

For more information visit: www.centrasemi.com/apps/pm9



Innovative Discrete Semiconductors

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www.centrasemi.com

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PB Set Top Box (R0)