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.centralsemi.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)
  - CMAVTS3V3: 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.centralsemi.com/apps/ioi9

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.centralsemi.com/apps/d9

Use QR reader for direct link to application web page.
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.centralsemi.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 Transistor 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.centralsemi.com/apps/si9

Codec/Modem
- MOSFET
  - CMPDM7002AG: 60V, 280mA N-Channel (SOT-23)
- Diode
  - CMPD4150: 50V, 250mA Switching (SOT-23)
- ESD Transistor 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.centralsemi.com/apps/cm9

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)
- Diode
  - CMPD4150: 50V, 250mA Switching (SOT-23)
- Current Limiting Diode (CLD)
  - CMJ4500: 4.5mA, 3.7V (SOD-123FL)
- ESD Transistor 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.centralsemi.com/apps/pm9

• 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 (SMD)
• Zener Diodes
  - CMHZ5226B thru CMHZ5242B: 3.3V-12V, 500mW (SOD-123)
For more information visit: www.centralsemi.com/apps/si9

For further information contact:
Sales at Central Semiconductor Corp.
(631) 435-1110 or visit:
www.centralsemi.com