

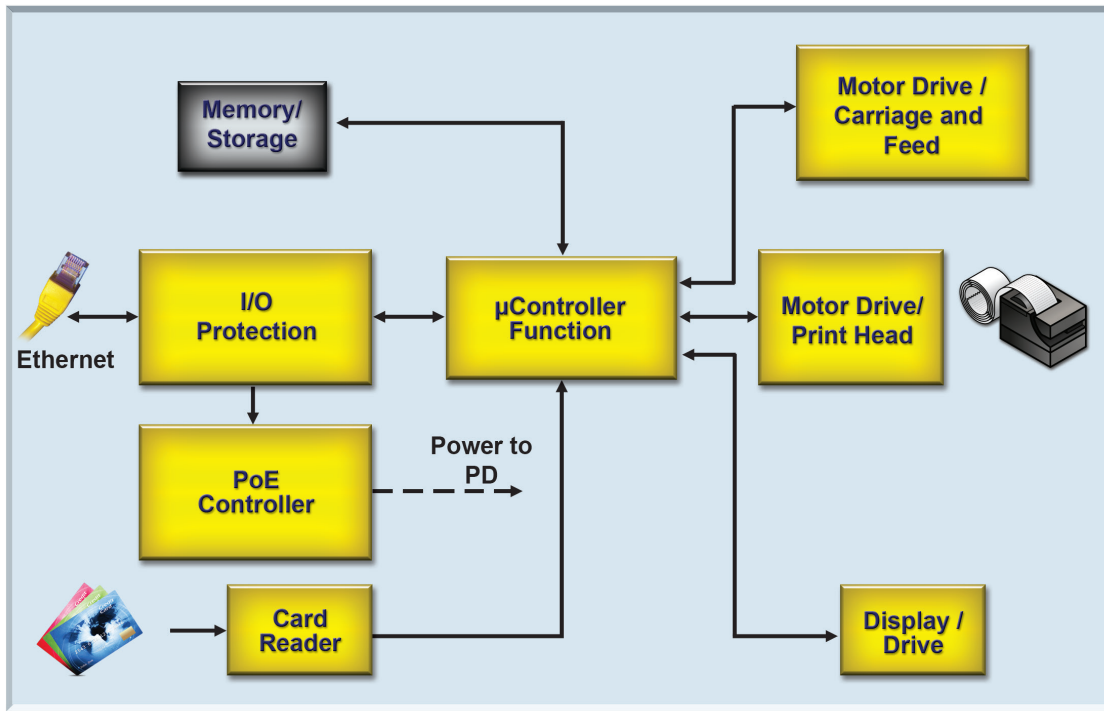
## PoE Point of Sale (POS) Terminal



Energy efficiency is the key design parameter of all Power over Ethernet (PoE) Powered Devices (PDs) such as the Point of Sale (POS) terminal. Central Semiconductor manufactures discrete semiconductors that minimize conduction and switching losses, therefore enhancing the overall energy efficiency of PoE systems.




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

### PoE Point of Sale (POS) Terminal Topology




#### I/O Protection

- Transient Voltage Suppressors (TVS) 


-  - C4SMAFL58A: 58V, 400W TVS (SMAFL)
-  - 1SMB58CA: 58V, 600W bi-directional TVS (SMB)
-  - 1.5SMC68CA: 58.1V (stand-off), 1500W bi-directional TVS (SMC)

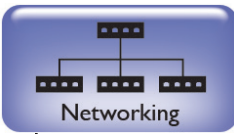
#### Motor Drive / Carriage and Feed

- MOSFETs 

-  - CMLDM7005: 650mA, 20V, Dual N-Channel MOSFET (SOT-563)
- CMUDM7004: 450mA, 30V, N-Channel MOSFET (SOT-523)

- Zener Diodes 




-  - CMOZ12L: 12V, 250mW low idle current Zener diode (SOD-523)







# PoE Point of Sale (POS) Terminal

## µController Function

### • Zener Diodes




-  CMOZ5L1: 5.1V, 250mW, low idle current Zener diode (SOD-523)
-  CMOZ12L: 12V, 250mW low idle current Zener diode (SOD-523)
-  CMDZ5L1: 5.1V, 250mW, low idle current Zener diode (SOD-323)

### • Transient Voltage Suppressors (TVS)



-  CFTVS5V0LC: 5V, low capacitance, low profile ESD TVS protector (SOD-882L)
-  CMO5V0LC: 5V, low capacitance, low profile ESD TVS protector (SOD-523)
-  CMATVS3V3: 3.3V ESD TVS protector (SOD-923)
-  CSMF03V3C: 3.3V, 5-line, ESD TVS protection array (SOT-363)

## Motor Drive / Print Head

### • MOSFETs



-  CXDM6053N: 60V, 5.3A, N-Channel MOSFET (SOT-89)
-  CMPDM7002AHC: 60V, 1A, N-Channel MOSFET (SOT-23)
-  CMLDM7005: 20V, 650mA, Dual N-Channel MOSFETs (SOT-563)

### • Zener Diodes

-  CMOZ5L1: 5.1V, 250mW, low idle current Zener diode (SOD-523)
-  CMOZ12L: 12V, 250mW low idle current Zener diode (SOD-523)












## Display / Drive

### • MOSFETs



-  CMUDM7004: 450mA, 30V, N-Channel MOSFET (SOT-523)
-  CEDM7001: 20V, 100mA, low profile N-Channel MOSFET (SOT883L)

## PoE Controller



### • Schottky Bridge Rectifiers Full Wave

-  CBRHDSH1-100: 1A, 100V Schottky Bridge (HD DIP)
-  CBRHDSH2-100: 2A, 200V Schottky Bridge (HD DIP)
-  CBRLDSH2-100: 2A, 100V Schottky Bridge (LPDIP)
-  CBRDFSH1-40: 1.0A, 40V (BR DFN)
-  CBRDFSH1-60: 1.0A, 60V (BR DFN)
-  CBRDFSH1-100: 1.0A, 100V (BR DFN)
-  CBRDFSH2-40: 2.0A, 40V (BR DFN)
-  CBRDFSH2-60: 2.0A, 60V (BR DFN)
-  CBRDFSH2-100: 2.0A, 100V (BR DFN)
-  CBRDFSH3-40: 3.0A, 40V (BR DFN)
-  CBRDFSH3-60: 3.0A, 60V (BR DFN)

### • Zener Diodes




-  CMOZ5L1: 5.1V, 250mW, low idle current Zener diode (SOD-523)
-  CMDZ5L1: 5.1V, 250mW, low idle current Zener diode (SOD-323)

### • MOSFETs




-  CEDM7002AE: 300mA, 20V, low profile N-Channel MOSFET (SOT-883L)
-  CEDM8004: 450mA, 30V, low profile P-Channel MOSFET (SOT-883L)

## Card Reader


### • Transient Voltage Suppressors (TVS)

-  CFTVS5V0LC: 5V, low capacitance, low profile ESD TVS protector (SOD-882L)
-  CMATVS3V3: 3.3V ESD TVS protector (SOD-923)
-  CSMF03V3C: 3.3V, 5-line, ESD TVS protection array (SOT-363)

### • Schottky Diodes

-  CMASH-4: 200mA, 40V, Schottky diode (SOD-923)
-  CFSH05-20L: 500mA, 20V, low  $V_F$ , low profile Schottky diode (SOD-882L)
-  CMSSH-3C: 100mA, 30V, dual common cathode, Schottky diodes (SOT-323)

### • Schottky Diodes

-  CFSH01-30L: 200mA, 20V, low  $V_F$ , low profile Schottky diode (SOD-882L)

For more information on Central's products and potential solutions:

Call us at: **1.631.435.1110**

Or view online: [www.centrasemi.com](http://www.centrasemi.com)

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