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Vishay Intertechnology, Inc.

**Consumer**  
*(Gaming)*



One of the World's Largest Manufacturers of  
**Discrete Semiconductors and Passive Components**





## **Consumer**

### Gaming

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More information on the Engineer's Toolbox, including product datasheet links, can be found at [www.vishay.com/ref/et3](http://www.vishay.com/ref/et3).

For inquiries, please contact your local sales representative.

Key components for  
**GAMING**

**Game Consoles**



**Portable  
Game Consoles**



**Accessories /  
Controllers /  
Steering Wheels**




**THE VISHAY ADVANTAGE**

- Power Efficiency
- Small Size
- Low Weight
- Low-Profile Height
- Low-Switching Loss

# Game Consoles



**OPTOELECTRONICS**

**IR Receiver Modules for Remote Control Systems** 

[TSOP58...](#)

- Industry leading range of 45 m, directivity of  $\pm 45^\circ$  in a thru-hole package
- Minimum irradiance of 0.12 mW/m<sup>2</sup>, and featuring AGC-3 or AGC-4 noise suppression

**TANTALUM CAPACITORS**

**Solid Tantalum Chip Capacitors 298D MICROTAN®, 298W Extended Range MICROTAN** 

[298D](#)

- High capacitance in small case sizes including 0603 and 0402 footprint
- Perfect for space constrained designs


**DIODES**

**Surface-Mount TRANSZORB® Transient Voltage Suppressors** 

[SMCJxx](#)

- AEC-Q101 qualified
- Available in unidirectional and bidirectional

**ICs**

**60 A VRPower® Integrated Power Stage Offers Highest Power Density and Efficiency** 

[SiC620](#)

- 3 % better efficiency with 50 °C cooler operation in a 30 % smaller footprint
- MLP5x5-31L, 5 V / 3.3 V PWM Tri-state, THWN, DSBL#, SMOD

**RESISTORS**

**Power Metal Strip® Resistors, Low Value (Down to 0.0005 Ω), Surface-Mount** 

[WSLx](#)

- Extremely low resistance values from 0.0005 Ω to 0.5 Ω and tolerance of 1 %
- Power Metal Strip all-welded construction offers high pulse capacity

**ICs**

**50 A, 5 V / 3.3 V PWM Integrated DrMOS Power Stage** 

[SiC780](#)

- Intel DrMOS 4.0 compliant
- MLP6x6-40L, 5 V / 3.3 V PWM Tri-state, THWN, DSBL#, SMOD


**RESISTORS**

**Professional Thin Film Chip Resistors** 

[MCS0402...e3](#)

- Excellent stability class 0.5, cost efficient
- CECC approved acc. EN 140401-801, sulfur resistant

**OPTOELECTRONICS**

**High Luminous Intensity LEDs in 0603 ChipLED Package** 

[VLMx1300](#)

- Available in blue, true green, yellow green, yellow, soft orange, super red, and white
- Angle of half intensity:  $\pm 65^\circ$ , 1.6 mm x 0.8 mm x 0.8 mm (L x W x H)


**RECTIFIERS**

**Dual Trench MOS Barrier Schottky Rectifier** 

[VT2080C](#)

- Trench MOS Schottky technology
- Low forward voltage drop, low power losses

**INDUCTORS**

**Low-Profile, High-Current IHLP® Inductors** 

[IHLP](#)

- Compact, high-current power inductor for DC/DC conversion and filter applications
- High-frequency operation up to 5 MHz


**MOSFETs**

**N-Channel 30 V (D-S) MOSFET** 

[SiSA18ADN](#)

- TrenchFET® Gen IV technology for increased power density, maximum R<sub>DS(on)</sub> 7.5 mΩ
- Thermally enhanced PowerPAK® 1212-8 is 1/3 the size of an SO-8

**DIODES**

**4-Line Bus-Port ESD Protection, Flow Through Design** 

[VBUS54ED-FBL](#)

- Very low profile – typical height of 0.65 mm
- Soldering can be checked by standard vision inspection


View datasheets for these products  
[www.vishay.com/ref/et3cn3a](http://www.vishay.com/ref/et3cn3a)



# Portable Gaming Consoles



**INDUCTORS**

**Low-Profile, High-Current IHLP® Inductors** 

[IHLP-1616ABER1R0M01](#)

- High-current, very low profile power inductor for DC/DC conversion and filtering
- High-frequency operation up to 5 MHz

**MOSFETs**

**Dual N-Channel 30 V (D-S) MOSFETs** 

[SiZ340DT](#)

- TrenchFET® Gen IV technology for increased power density, maximum  $R_{DS(on)}$  5.1 mΩ
- PowerPAIR® package optimizes high and low side MOSFETs to increase efficiency

**RESISTORS**

**Professional Thin Film Chip Resistors** 

[MCS0402...e3](#)

- Excellent stability class 0.5, cost efficient
- CECC approved acc. EN 140401-801, sulfur-resistant


**RECTIFIERS**

**High Current Density Surface-Mount Trench MOS Barrier Schottky Rectifier** 

[V8PM12](#)

- Trench MOS Schottky technology
- AEC-Q101 qualified


**RESISTORS**

**Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value** 

[RCWE](#)

- Low resistance values from 0.01 Ω to 0.99 Ω and tolerance of 1 %
- Thick film construction with 2x power capacity


**OPTOELECTRONICS**

**High-Speed Infrared Emitting Diodes, 890 nm, GaAIAs, DH** 

[VSMF2890GX01](#)

- 890 nm emitting diode in GaAIAs technology with high radiant power of 40 mW,  $I_F=100$  mA
- 2.3 mm x 2.3 mm x 2.8 mm gullwing SMD pkg., ± 12° angle of half intensity


**ICs**

**20 mΩ, Slew Rate Controlled Load Switch in WCSP6** 

[SiP32458](#)

- Low and flat  $R_{ON}$  over the full operation voltage range
- Features low  $I_Q$ , reverse blocking with guaranteed less than 10 μA leakage


**OPTOELECTRONICS**

**Fully Integrated Proximity and Ambient Light Sensor with I²C Interface** 

[VCNL4020](#)

- Infrared emitter is included in the 4.9 mm x 2.4 mm x 0.83 mm SMD pkg.
- 16-bit resolution, proximity range of up to 20 cm with programmable thresholds

**DIODES**

**4-Line Bus-Port ESD Protection, Flow Through Design** 

[VBUS54ED-FBL](#)

- Compact LLP2510-10L package
- Soldering can be checked by standard vision inspection


**TANTALUM CAPACITORS**

**vPolyTan™ Polymar Tantalum Capacitors** 

[T55](#)

- High-capacitance, low-ESR polymer tantalum capacitors
- Stable electrical performance over temperature and voltage


**ENERGY STORAGE CAPACITORS**

**Hybrid Storage Capacitors** 

[196 HVC ENYCAP™](#)

- Extreme small profile with high energy density
- Instant rechargeable, suitable for solar power charging

**OPTOELECTRONICS**

**IR Receiver Modules for Remote Control Systems** 


[TSOP6236TR](#)

- Low supply current, photo detector and preamplifier in one package
- Supply voltage: 2.5 V to 5.5 V, improved immunity against ambient light


View datasheets for these products [www.vishay.com/ref/et3cn3b](http://www.vishay.com/ref/et3cn3b)

*Accessories /  
Controllers /  
Steering Wheels*




ICs  
**Low-Voltage Dual SPDT Analog Switch with Negative Swing Audio Capability**   
[DG2750](#)  

- Supports negative swing signal down to -2 V
- 0.6  $\Omega$  low switch on resistance, and 4 pC low charge injection

TANTALUM CAPACITORS  
**Solid Tantalum Surface-Mount Chip Capacitors, TANTAMOUNT<sup>®</sup>, Standard Industrial Grade**   
[293D](#)  

- Molded tantalum capacitor, standard industrial grade
- General purpose capacitor

ICs  
**Low-Voltage, Fault Protection, SP3T Analog Switch (3:1 Multiplexer / Demultiplexer)**   
[DG2522](#)  


- 0.8  $\Omega$  low switch on-resistance and 105 MHz bandwidth
- Power over V+ rail protection with guaranteed low leakage under fault condition

TANTALUM CAPACITORS  
**Solid Tantalum Chip Capacitors 298D MICROTAN<sup>®</sup>, 298W Extended Range MICROTAN**   
[298D](#)  


- High capacitance in small case sizes including 0603 and 0402 footprint
- Perfect for space constrained designs

NON-LINEAR RESISTORS  
**SMD 0603, Glass Protected NTC Thermistors**   
[NTCS0603xx](#)  


- Standard series, AEC-Q200 compliant
- Glass protected with soft terminations

MOSFETs  
**P-Channel 20 V (D-S) MOSFET**   
[Si2367DS](#)  


- Classic TrenchFET<sup>®</sup> technology with on-resistance rating down to 1.8 V
- Popular SOT-23 packaging

RESISTORS  
**Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value**   
[RCWE](#)  


- Low resistance values from 0.01  $\Omega$  to 0.99  $\Omega$  and tolerance of 1 %
- Thick film construction with 2x power capacity

ICs  
**1.1 V to 5.5 V, Slew Rate Controlled Load Switch**   
[SiP32408](#)  

- Flat row R<sub>ON</sub> down to 1.2 V, 42 m $\Omega$  typical from 1.5 V to 5 V
- Slew rate controlled turn-on: 2.5 ms at 3.6 V

DIODES  
**Low-Capacitance Bidirectional Symmetrical (BiSy) Single Line ESD-Protection Diode**   
[VBUS05A1-SD0](#)  


- Ultra compact CLP0603 package
- Low package height < 0.3 mm

INDUCTORS  
**Low-Profile, High-Current Inductors**   
[IFSC](#)  

- Very small ferrite power inductor for DC/DC conversion and filtering

RESISTORS  
**Professional Thin Film Chip Resistors**   
[MCS0402...e3](#)  

- Excellent stability class 0.5, cost efficient
- CECC approved acc. EN 140401-801, sulfur resistant

RECTIFIERS  
**Surface-Mount Schottky Barrier Rectifier**   
[SS32-M3](#)  

- Low-profile package
- Low power losses, high efficiency, low forward voltage drop, high surge capability

View datasheets for these products  
[www.vishay.com/ref/et3cn3c](http://www.vishay.com/ref/et3cn3c)





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## ***ABOUT TTI, INC.***

TTI Inc., a subsidiary of Berkshire Hathaway, is a world leading specialist distributor of connectors and passive, electromechanical and discrete components. TTI's philosophy is "Lead by Design", and the company differentiates itself by focusing on people, parts and processes. The company's aim is to become the distributor of choice for customers and suppliers in Europe alike by introducing new product technologies and by stocking broad and deep across its franchise base. TTI employs sophisticated inventory management processes which ensure that the company can react immediately to changes in component demand due to fluctuating markets and supply chains. For further information about TTI, please refer to: [www.ttieurope.com](http://www.ttieurope.com).



**A WORLD OF  
SOLUTIONS**

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