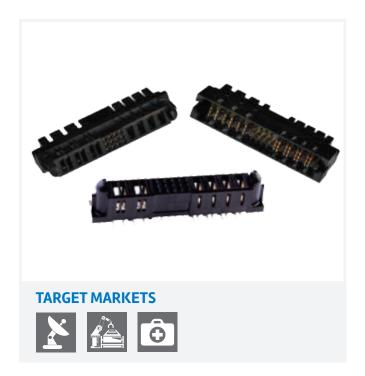


# **PwrBlade ULTRA® Connector System**

The PwrBlade ULTRA® connector is the newest addition to the PwrBlade® product line. This new design offers an overall height reduction of 24% to reduce airflow impedance in high density power supplies. Three contact choices are available; High Power, Low Power, and Signal.

Ultra-high conductivity materials and new highly conductive plating, combine to produce an ultra-low resistance of just 0.4 at end-of-life conditions. The result is the lowest profile power distribution connector capable of delivering more than 200 Amps per linear inch.



#### **FEATURES**

- Up to 75A per contact for high power and up to 45A per contact for low power
- 9.6mm height
- Highly vented housing design
- Halogen-free housing material
- Operating temperature ranges from -40 °C to 125 °C
- Right Angle header, Right Angle receptacle and Vertical receptacle types
- Number and placement of power and signal contacts are configurable for customer needs
- Solder or press-fit tails

#### **BENEFITS**

- Provide excellent power density and multiple power voltage
- Low profile configuration ideal for 1U power supplies or power distribution system
- Maximizes heat dissipation for effective system cooling
- Meets next generation environmental requirements
- Adaptable to extreme environments
- For both co-planar applications and backplane applications
- Design flexibility and choices for customers
- Termination flexibility

#### **TECHNICAL INFORMATION**

#### **MATERIAL**

- Housing
  - High-Temperature Thermoplastic (UL 94 V-0, halogen-free), Black
- Power contact base metal
  - High-Conductivity Copper Alloy
- Contact finish
  - Separable Interface:
    Power Contact: GCS® or GXT®
    Signal Contact: GXT®
  - Board connector solder tail area: Matte tin over nickel

#### **ELECTRICAL PERFORMANCES**

- High power contact current:
  Up to 75A/contact at 30°C T-rise in still air
- Low power contact current rating:
  Up to 45A/contact at 30°C T-rise in still air
- Operating Voltage:
  - High power on 7.00mm pitch -400V
  - High power on 5.00mm pitch -200V
  - Low power on 3.5mm pitch -218V
- Dielectric Withstanding Voltage:
  - High/Low power contacts: 2500V
- Insulation Resistance: > 1000m $\Omega$  max. at end of life
- Contact Resistance
  - $\bullet$  Power Contact: 0.4m $\Omega$  max. at end of life
  - Signal Contact: 20m $\Omega$  max. at end of life

#### **ENVIRONMENTAL**

- Operating Temperature: -40°C to +125°C
- RoHS: this product is compatible according to the European Union Directive 2002/95/IEC

#### **MECHANICAL PERFORMANCE**

- Contact Wipe Distance: 5.5mm
- Durability: 200 mating cycles

#### **SPECIFICATIONS**

- Product specification: GS-12-1176
- Application specification: GS-20-0389

#### **APPROVALS AND CERTIFICATIONS**

- c **Su**s E66906

#### **PACKAGING**

Trays

#### TARGET MARKETS/APPLICATIONS



AC/DC pluggable power supplies



Industrial PCs



Medical

### **PART NUMBERS**

Description	Part Numbers
Right Angle Header	1012739X-XXXXXXXLF
Vertical Receptacle	1012740X-XXXXXXXLF

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### FCI / Amphenol:

10127397-00H1420LF	10127401-00H1420LF	10127401-01H2410LF	10127401-03H1410LF	10127397-01H2410LF
10127397-03H1410LF	10127400-02H1410LF	10127402-01H2410LF	10127401-03H1420LF	10127397-03H1420LF
10127400-03H1410LF	10127396-01H2410LF	10127403-13H1400LF	10127400-01H2410LF	10127397-05H1400LF
10127397-10H1400LF	10127402-00H2410LF	10127397-06H1410LF	10127403-01H2410LF	10127396-02H1410LF
10127401-05H4100LF	10127401-06H1410LF	10127397-10H1410LF	10127400-04H1410LF	10127397-01H1420LF
10127401-10H1400LF	10127397-11H1410LF	10127401-10H1410LF	10127401-01H1420LF	10127401-04H1400LF
10127401-02H4100LF	10127401-05H1400LF	10127397-24H1400LF	10127397-31H1400LF	10127401-04H1430LF
10127403-18H1400LF	10127397-04H1430LF	10127397-17H1410LF	10127401-16H1410LF	10127401-19H1400LF
10127403-17H1400LF	10127397-19H1410LF	10127397-34H1400LF	10127397-35H1400LF	10127401-04H4100LF
10127403-20H1400LF	10127397-21H1410LF	10127397-25H1400LF	10127401-20H1400LF	10127402-01H4100LF
10127403-06H1410LF	10127401-22H1410LF	10127396-00H1000LF	10127403-00H1000LF	10127397-30H1400LF
10127397-33H1400LF	10127401-12H1410LF	10127403-04H1410LF	10127397-04H4100LF	10127397-22H1410LF
10127396-02H1000LF	10127397-00H2410LF	10127397-04H1400LF	10127401-05H1430LF	10127401-11H1400LF
10127397-02H4100LF	10127400-08H1410LF	10127401-11H1410LF	10127402-02H1410LF	10127403-02H4100LF
10127402-00H1240LF	10127402-04H1400LF	10127397-15H1410LF	10127400-01H1000LF	10127401-00H2410LF
10127402-00H1000LF	10127402-03H1410LF	10127397-05H4100LF	10127403-03H1410LF	10127403-14H1400LF
10127397-05H1430LF	10127397-00H4100LF	10127397-04H1420LF	10127396-08H1410LF	10127401-00H4130LF
10127397-00H4130LF	10127403-00H4200LF	10127397-00H1000LF	10127397-00H4200LF	10127397-09H1410LF
10127397-23H1400LF	10127401-00H4200LF	10127401-04H1420LF	10127401-18H1400LF	10127401-00H4100LF
10127397-13H1400LF	10127400-00H1400LF	10127397-00H2400LF		