

Minitek® Pwr 3.0 Product Presentation

Basics Portfolio



Agenda



- Value Proposition
- Product Overview
- Product Specifications
- Features & Benefits
- Part Numbers
- Stacking Height Matrix
- Markets & Applications
- Marcom Collaterals



Value Proposition

Minitek® Pwr 3.0mm is a flexible and comprehensive solution designed for power application with current rating up to 5A per circuit, available in dual row and 2 to 24 circuits.

Crimp, snap-in header and receptacle contacts are used to terminate 3DAWG-2DAWG wires. Header and receptacle housings allow Wire-To-Wire and Wire-To-Board configurations. Crimping and removal tools are available for wire harness assembly. Header assemblies for Wire-To-Board interconnections include vertical and right angle components. These wave soldering headers are available in through-hole configurations

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Product Overview

Circuit Size	Minitek Pwrm4.2		
Riplat	Power: 2~24 Signal: N/A	Minitek Pwr 74/3.0	Right A.
Applied Wire Max Current per Content	16~22 24 Right Angle	Signal: N/A Wire to Wire, Wire to D	Power 2 - 24
per Contact Pitch	Signat: N/A Wre b Wre, Wire b Board, Panel Mount Right Angle 16 ~ 22, 24 ~ 28 AWG 9A 4.2ms	20~30 AWG	ne to Wire, Wire to Board
Features	42mm Mini-Fit JR™ Compatible	5A 3.0mm	6-22,24-28 AWG
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Product Specifications

Product Facts

- •Wire-to-wire and Wire-to-board connector
 system
- Contacts are on 3.0mm (0.118") centerline spacing
- 2-24 contact positions dual row
- Dual beam contact design for reliable interconnection
- \blacksquare Contact accept 20-30 AWG wire with insulation

diameter of 1.85mm maximum

- Contact available in strip form
- PCB mount pin header assembly in both vertical and

right-angle styles

Right-angle & vertical through-hole PCB header

Performances

- PCB headers are wave soldering
- LUJw Alegveqveqvecontact Resistance: 20mΩ max.
- IANSaullatiben Ressistine eCompanding anin.
- Voltage Rating: 250V rms
- Current Rating: 5A/contact. Refer to product specifications for higher current application
- Dielectric Withstand Voltage: 1000 VAC
- Temperature Rise: 30°C max.



Environmental

■ Operating Temperature : -40~105°C & -40~45°C

Mechanical Performances

- Terminal Insertion Force: 4.5N max and 2N min before durability, 1.5N min after durability
- Terminal Withdrawal Force: 3.7N min.
- Durability: 100 cycles
- •Wire Pullout Force: Refer to product specifications

Specifications

- Product specification GS-12-1181
- Package specification GS-14-2362
- Application specification GS-20-0401

Tool Information

- Ratchet Hand Crimping Tool: 10129483-001LF
- Terminal Extraction Tool: 10129274-030LF



Features & Benefits

Features	Benefits		
Fully isolated terminals	Prevents terminals from potential damage during operation		
Positive locking on HSG with low thumb latch operation	Prevents from unexpectedly unmating		
Polarized mating geometry	Ensures header and receptacle are correctly mated		
Scoop-proof housings	Ensures terminals and header pins are not damaged for angled mating		
Low insertion force for installation of crimped terminal	Easy to use		
Vertical and right-angle PCB headers for wave soldering application	Supports various 1.6mm PCB applications		
Cost-effective Wire-To-Wire, free hanging headers and vertical or right-angle pin headers solution	Flexible applications in various situations		
Glow Wire Compliant series available	Supports home appliances requirements		

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Main Markets & Application

Consumer

- Set Top Box
- Refrigerator
- Air Conditioning

Industrial & Instrumentation

- Medical
 - Hospital Bed
 - Defibrillator
 - Patient Monitor
 - Ultrasound Equipment
- Military
 - Chemical Detection System
 - Radar Equipment
- Customer Premises Equipment

Data

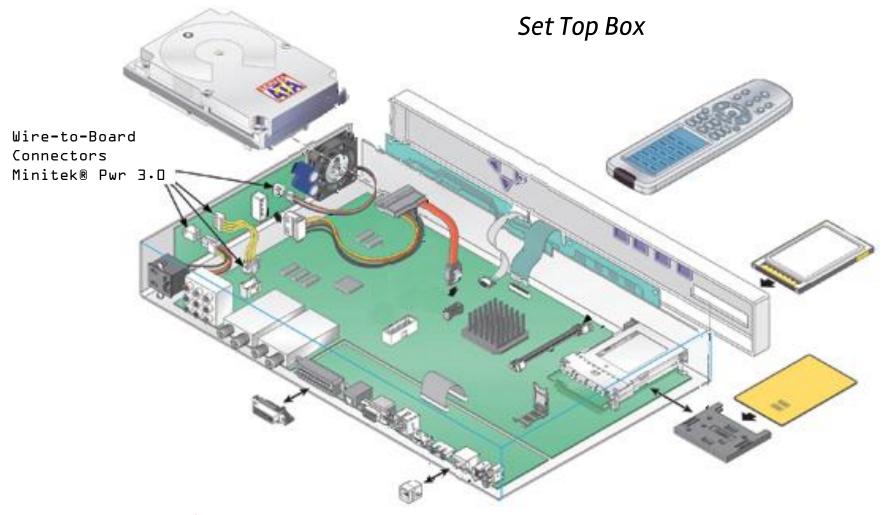
- HDD
- Rack Mount Server
- Server
- Desktop Pc and MotherBoard

Telecommunications

- lU Rack Box
- Telecom Box
- Wi Max Box
- Interface Converter
- Customer Premises Equipment

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Markets & Application - Consumer

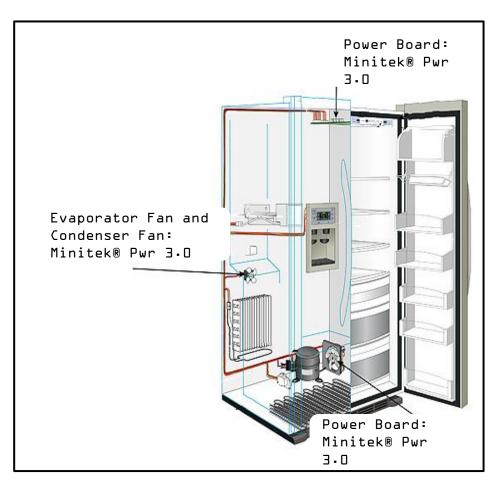


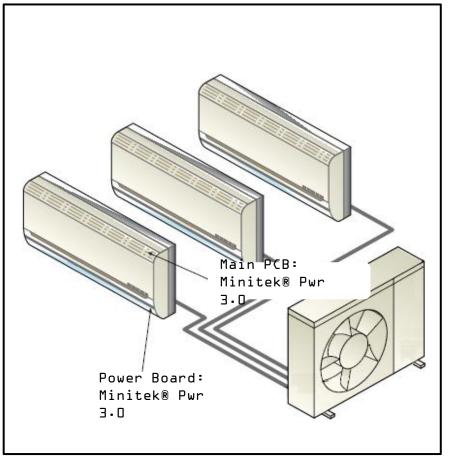
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Markets & Application - Consumer

Refrigerator



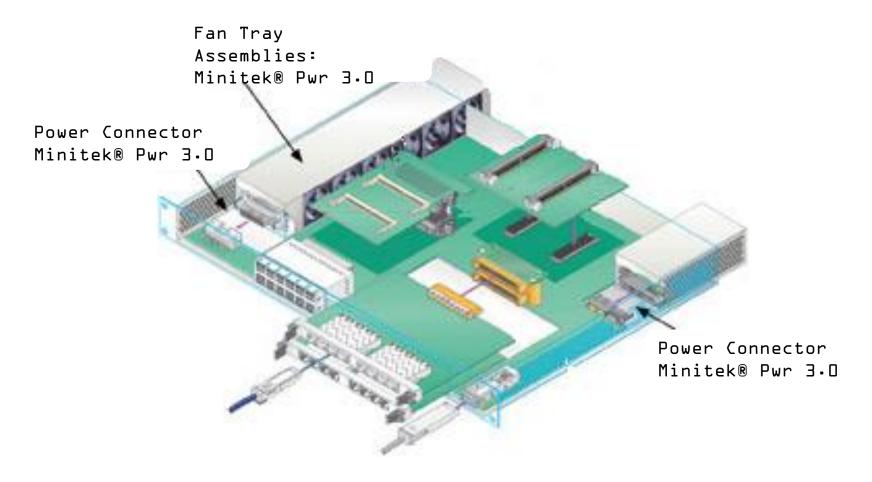




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Markets & Application - Telecom

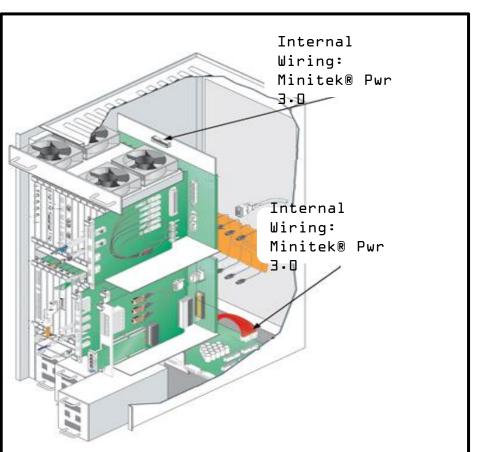
1U Rack Box



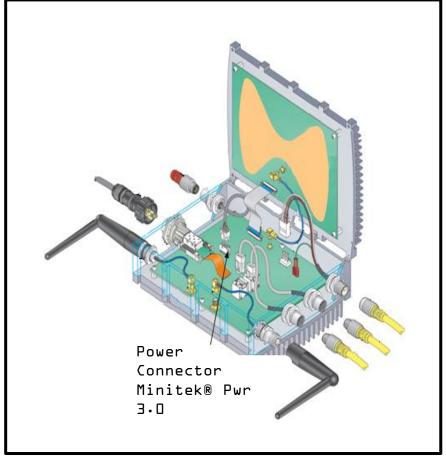
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Markets & Application - Telecom

Telecom Box

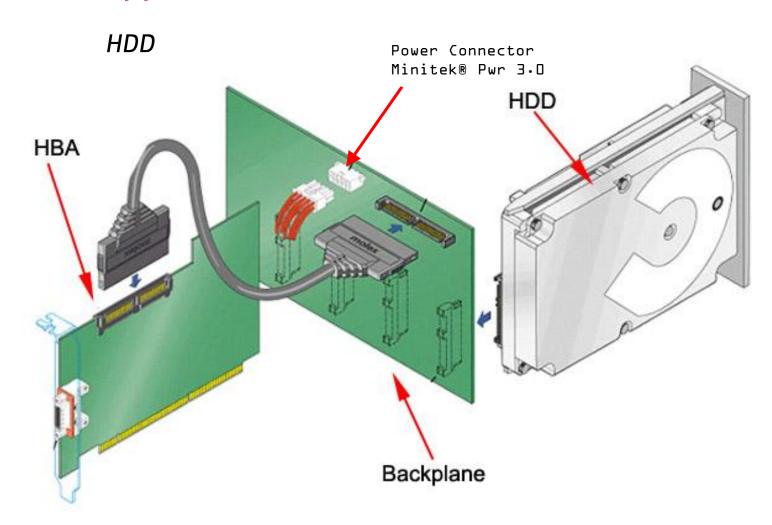


Wi-Max Box



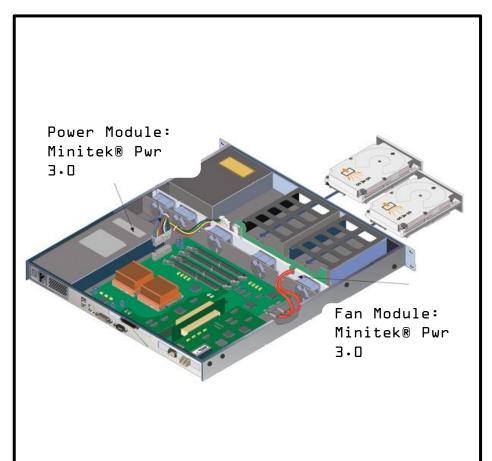
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Markets & Application - Data

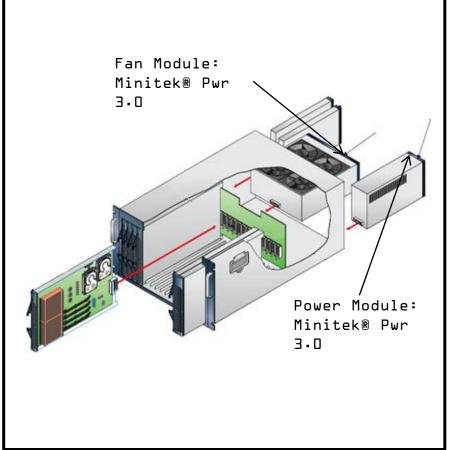


Markets & Application - Data

Rack-Mount Server



Blade Server

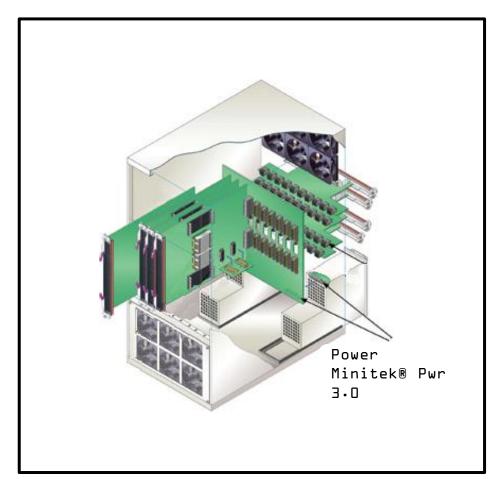


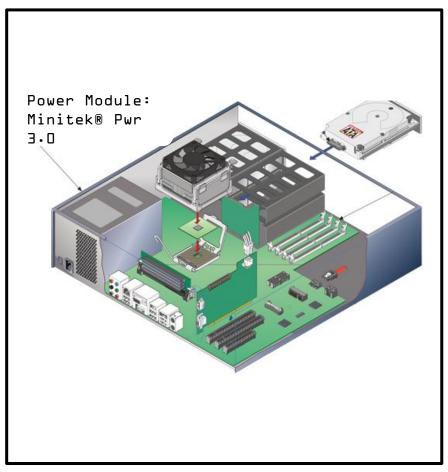


Markets & Application - Data

Server







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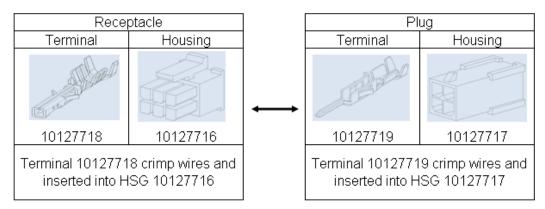
Part Numbers

Product Description	Positions	Material	FCI P/N	Figure
PCB Header Right Angle Through Hole	#2~#24	LCP, UL94V-O, Black color Brass Terminal	10127720	
PCB Header Vertical Through Hole	#2~#24	LCP, UL94V-O, Black color Brass Terminal	10127721	合的
Receptacle Housing	#2~#24	NYLON 66, UL94V-O, Black	10127716	
Plug Housing	#2~#24	NYLON 66, UL94V-O, Black	10157717	
Female Terminal	-	PhBr AWG 22~28 (ዕው 1.2~1.7mm)	10127718	THE WAY
Male Terminal	-	PhBr AWG 22~28 (OD 1.2~1.7mm)	10127719	WANT OF THE PARTY

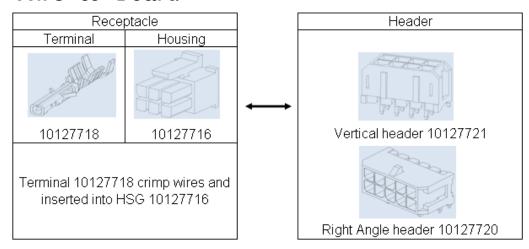
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Mating

Wire-to-Wire



Wire-to-Board



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Collaterals

Available on FCI.com:

Technical Data Sheet



Part Numbers & Drawings





THANK YOU

