



Minitek® Pwr 4.2

Product Presentation

Basics Portfolio



Agenda



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

Minitek® Pwr 4.2



Value Proposition

Minitek® Power 4.2mm is a **flexible** and **comprehensive** solution designed for power application with current rating up to 9A per circuit, available in dual row and 2 to 24 circuits.

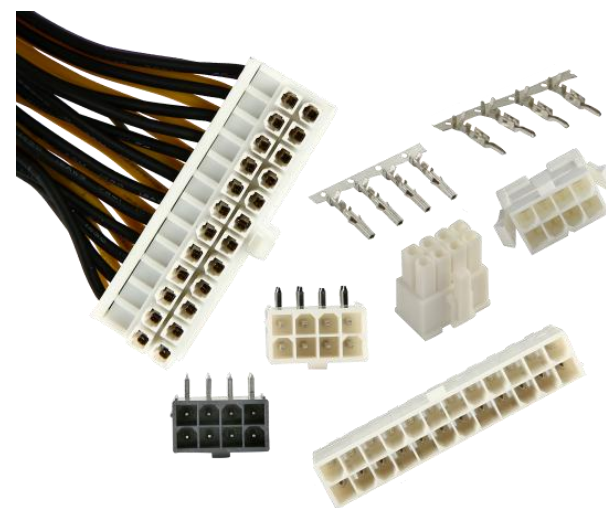
Crimp, snap-in header and receptacle contacts are used to terminate 30AWG-16AWG wires. Header and receptacle housings allow Wire-To-Wire and Wire-To-Board configurations. Crimping and removal tools are available for wire harness assembly. Header assemblies for Wire-To-Board interconnections include vertical and right angle components. These wave soldering headers are available in through-hole configurations

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Product Overview



Circuit Size	Minitek Pwr™4.2		Right Angle Minitek Pwr™4.2
Available Configuration	Power: 2 ~ 24 Signal: N/A	Power: 2 ~ 24 Signal: N/A	Power: 2 ~ 24 Signal: N/A
PCB Termination	Wire to Wire, Wire to Board, Panel Mount	Wire to Wire, Wire to Board	Wire to Wire, Wire to Board
Applied Wire	16 ~ 22, 24 ~ 28 AWG	16 ~ 22, 24 ~ 28 AWG	16 ~ 22, 24 ~ 28 AWG
Max. Current per Contact	9A	5A	9A
Pitch	4.2mm	3.0mm	4.2mm
Features	Mini-Fit JR™ Compatible	Micro-Fit™ Compatible	Mini-Fit JR™ Compatible



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Product Specifications



Product Facts

- Wire-to-wire, Wire-to-board and wire-to-panel
- connectors with 4.2mm centerline.
- Easy mate and unmate with positive latch design.
- Dual row, 2-24 positions
- Receptacle, panel mount, plugs, and vertical or right-angle pin headers
- Available in UL94V-0 flammability rated nylon
- Products are lead free to help promote a cleaner environment
- UL Approved.
- Available Glow Wire Compatible

Performances

- Current Rating : Up to 9A
- Insulation Resistance: 1000M Ω Min
- Voltage rating : 600

Environmental

- Operating temperature range: -40°C to +105°C

Mechanical Performances

- Terminal Insertion Force: 14.7N
- Terminal Withdrawal Force: 1.0N min.
- Durability: 100 cycles
- Wire Pullout Force: Refer to product specifications

Specifications

- Product Spec : GS-12-1181
- Package Spec : GS-14-2362
- Application Spec : GS-20-0401

Tool Information

- Ratchet Hand Crimping Tool: 10129483-001LF
- Terminal Extraction Tool: 10129274-042LF

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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
Special right-angle type receptacle	Ideal for cable routing within 1U or 2U equipment systems
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

- 1U Rack Box
- Telecom Box
- Wi - Max Box
- Interface Converter
- Customer Premises Equipment

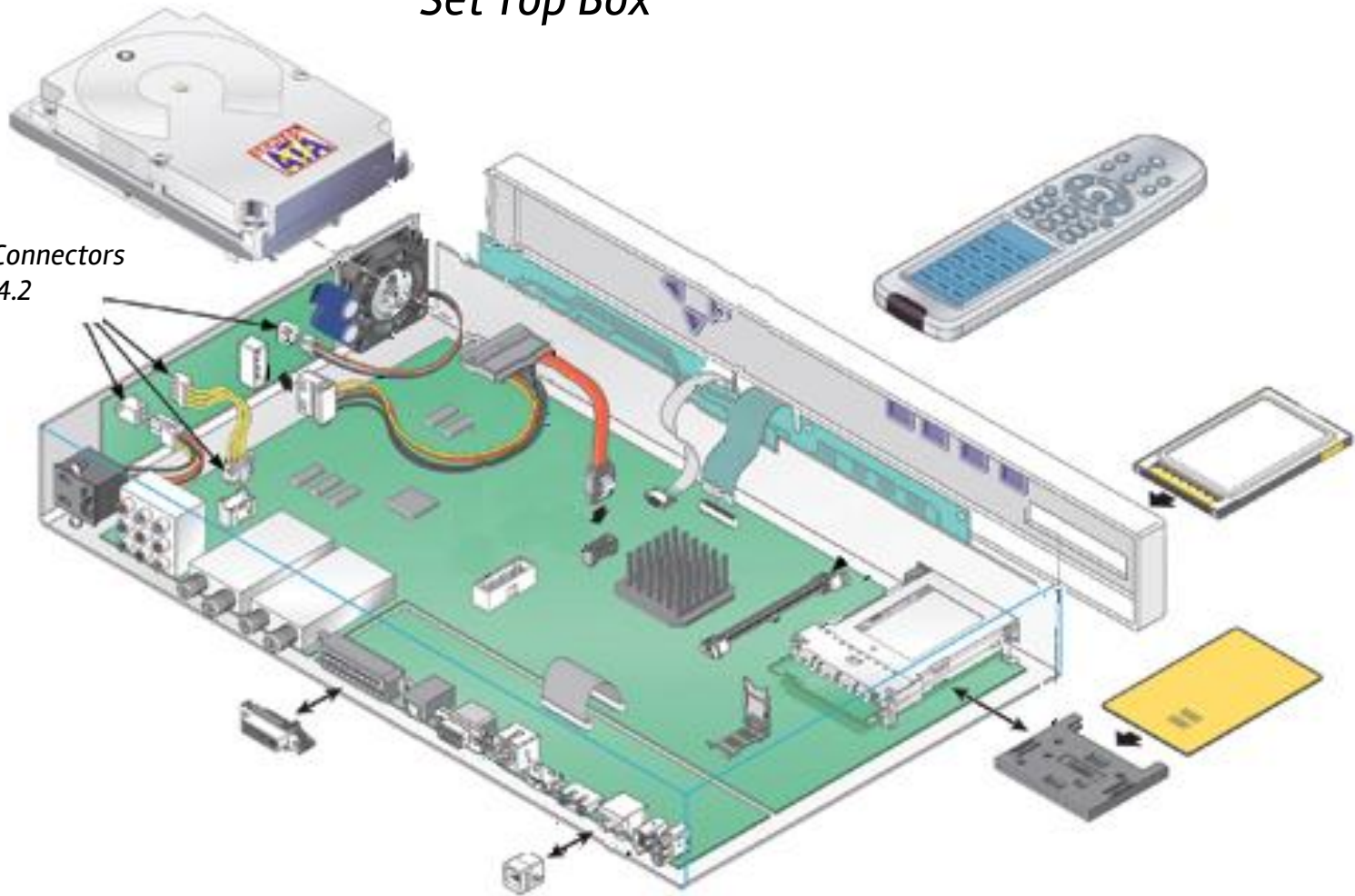
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Markets & Application – Consumer

Set Top Box

Wire-to-Board Connectors
Minitek® Power 4.2

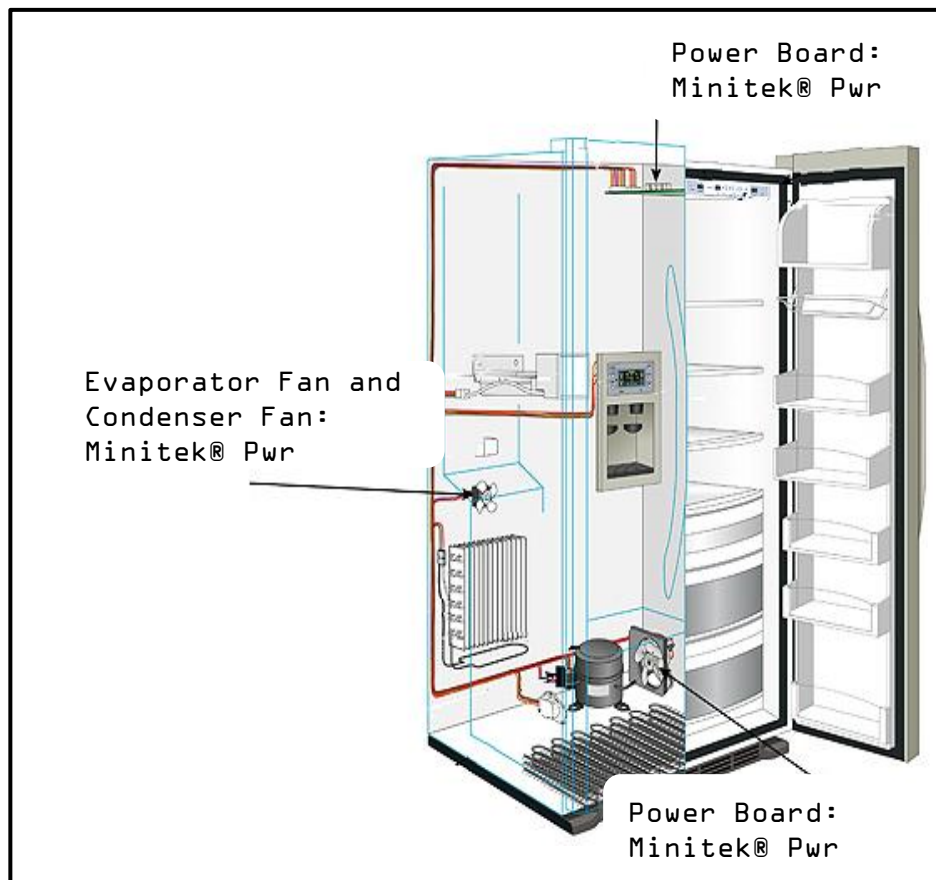


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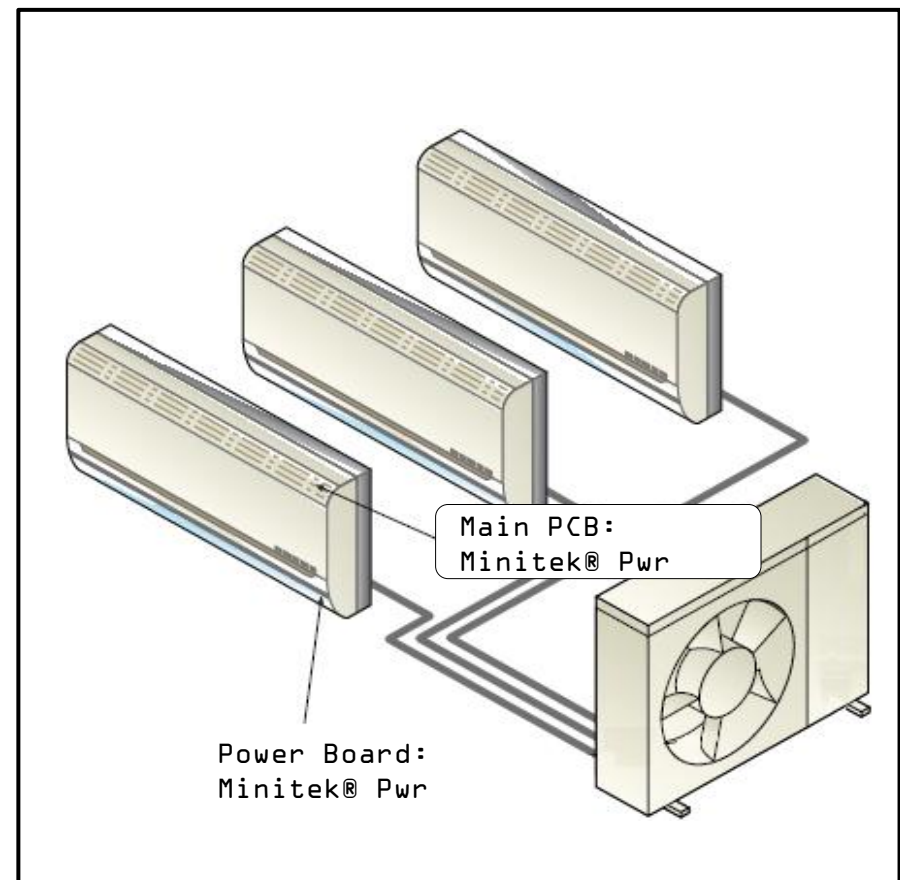


Markets & Application – Consumer

Refrigerator



Air Conditioning

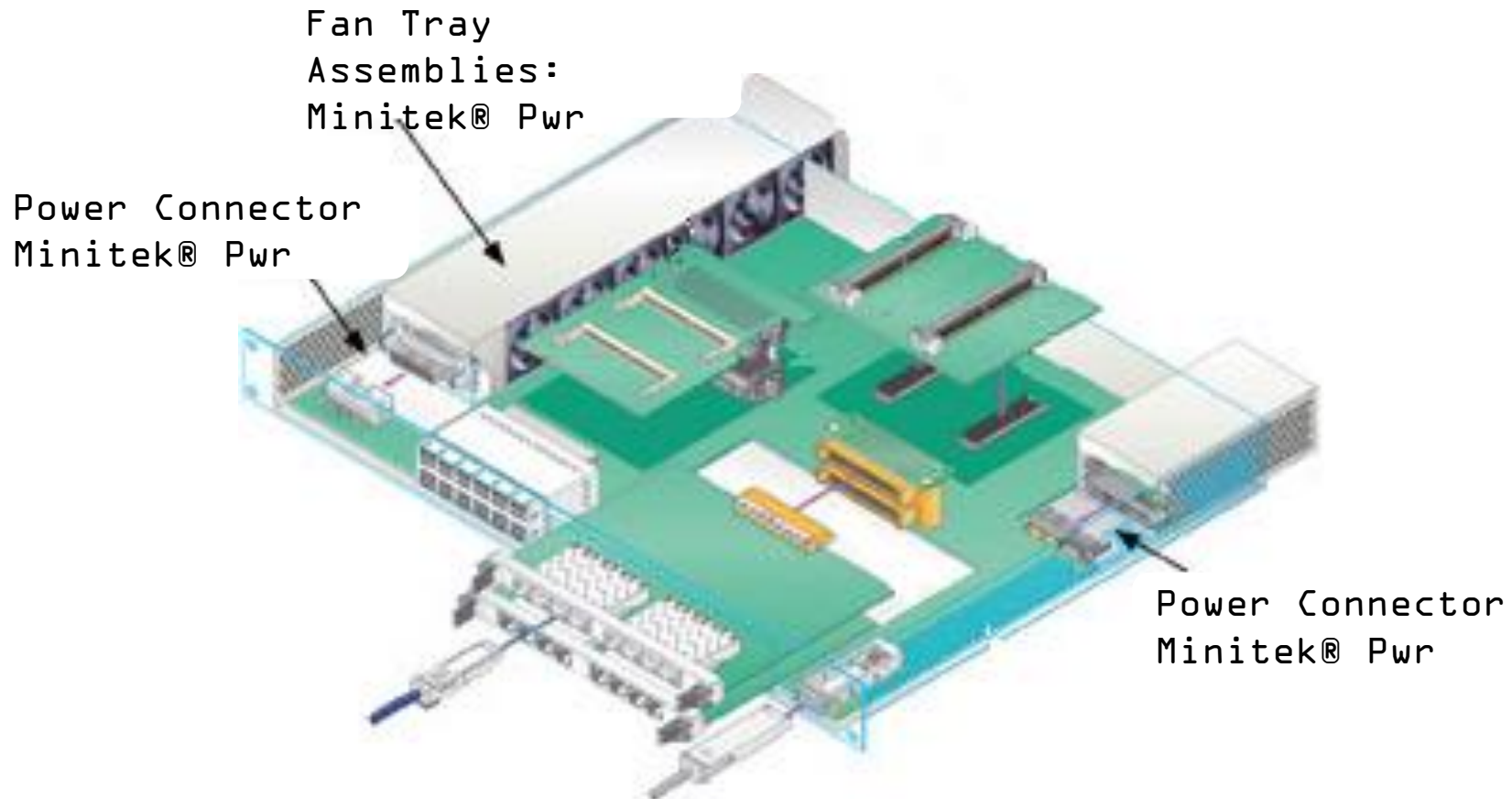


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Markets & Application – Telecom

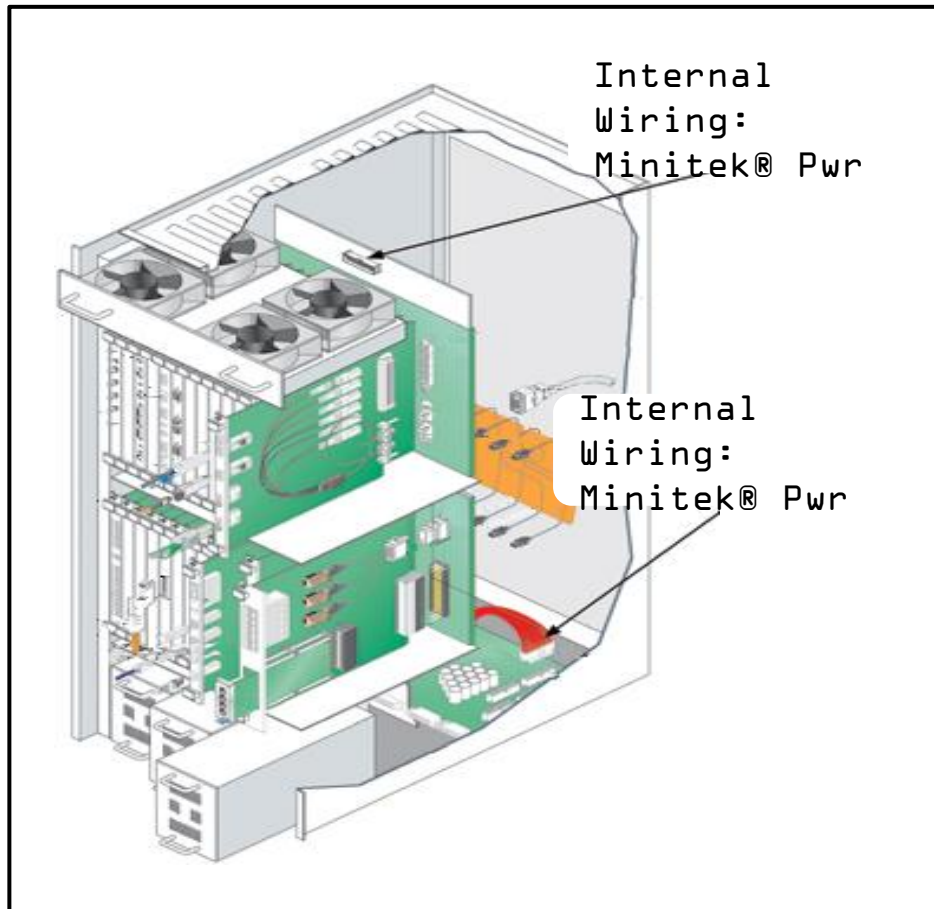
1U Rack Box



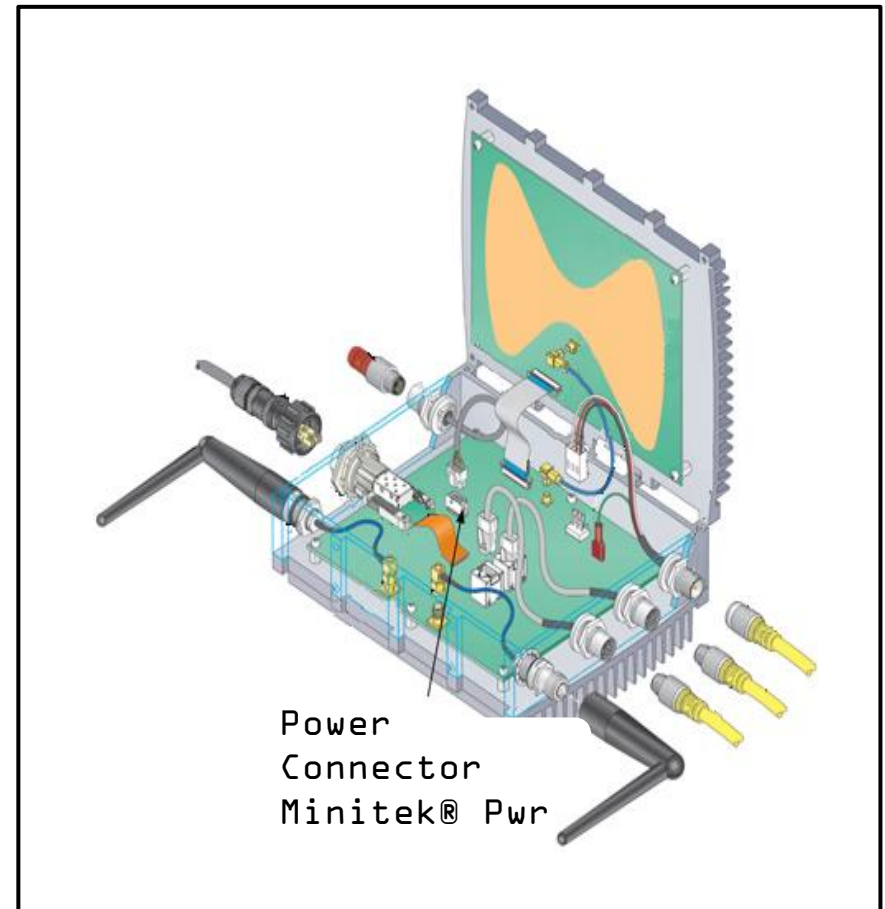
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Markets & Application – Telecom

Telecom Box



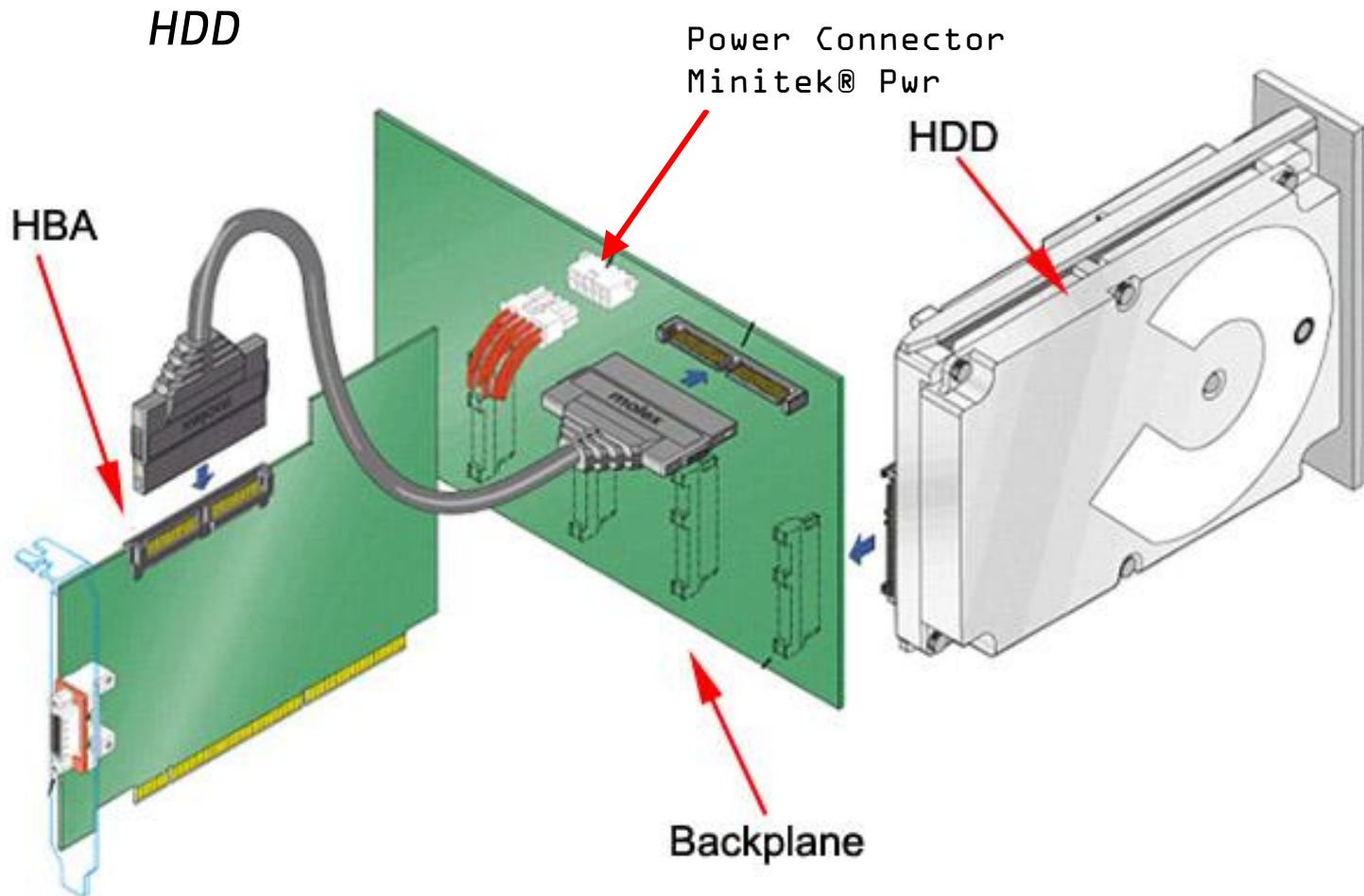
Wi-Max Box



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Markets & Application – Data

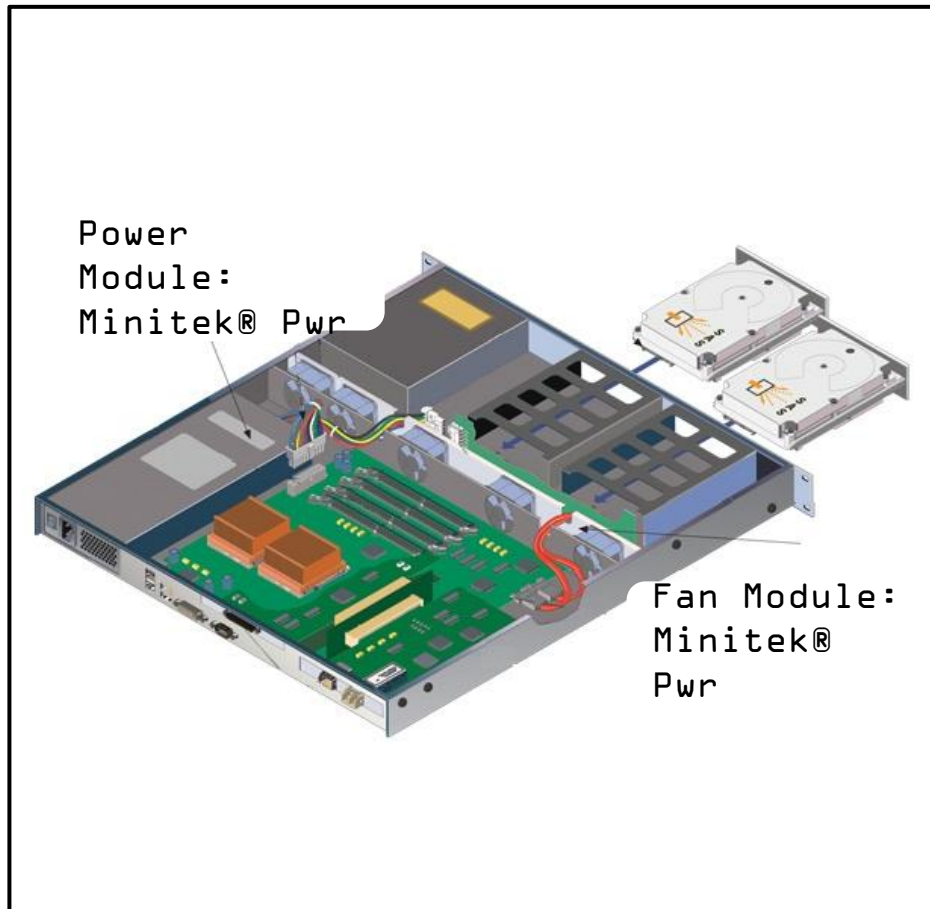


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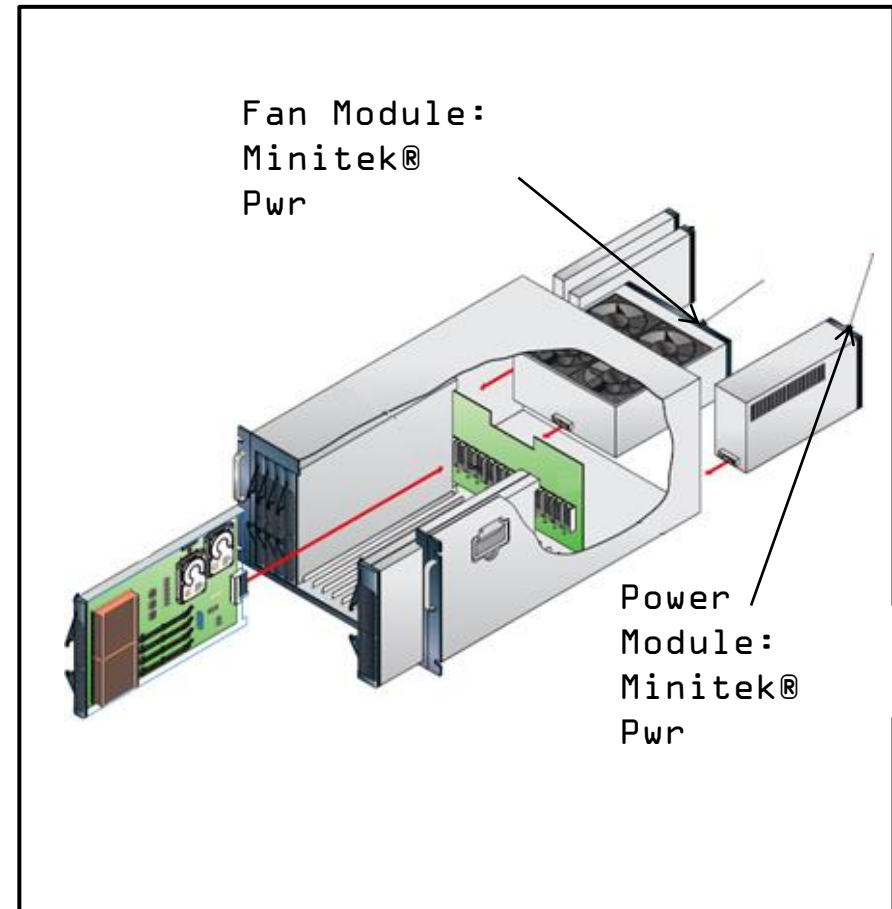
Markets & Application – Data



Rack-Mount Server



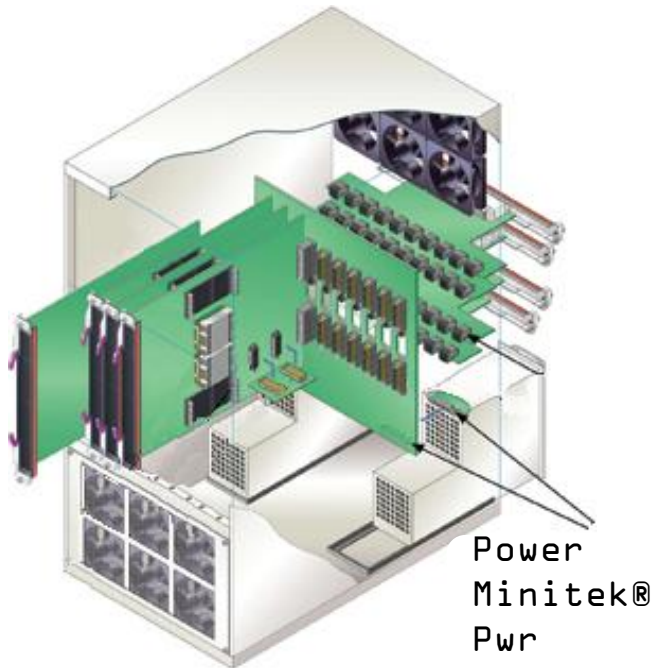
Blade Server



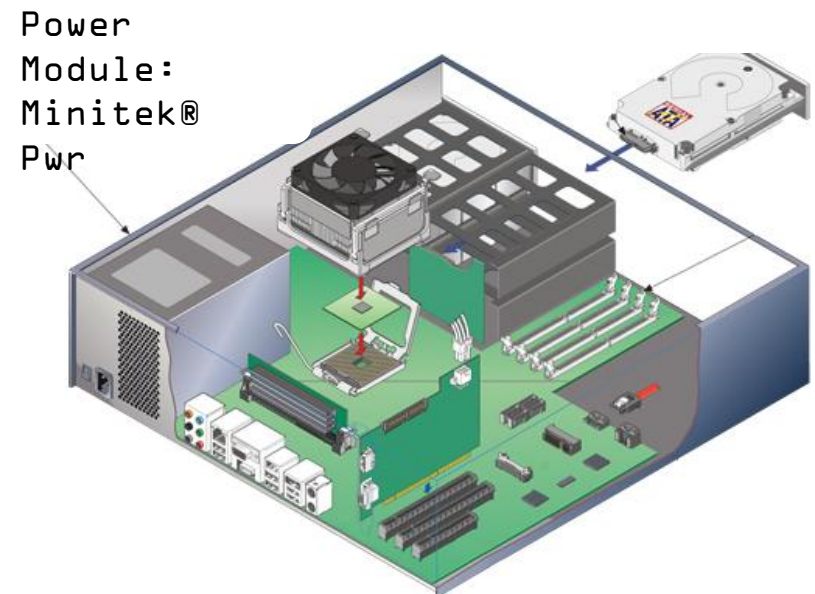
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Markets & Application – Data

Server



Desktop PC and MotherBoard



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Part Numbers

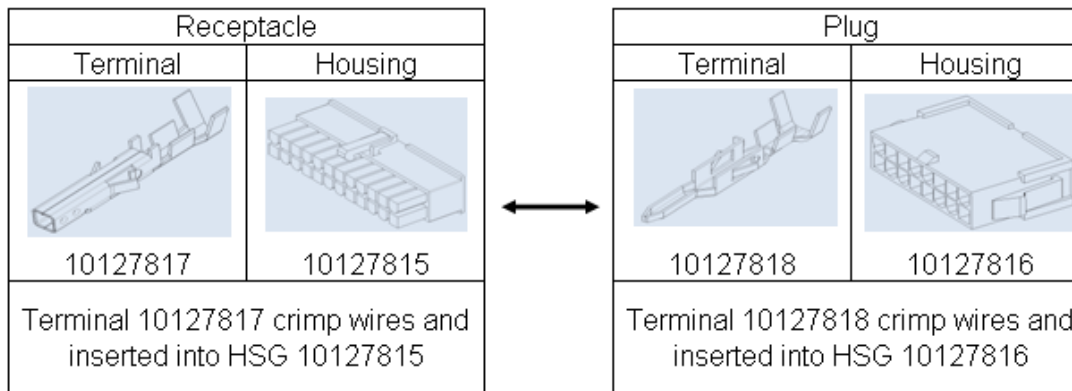
Product Description	Positions	Material	FCI P/N	Figure
PCB Header Right Angle	#2~#24	PA66, UL 94V-0, natural color Brass Terminal	10127819	
PCB Header Vertical	#2~#24	PA66, UL 94V-0, natural color Brass Terminal	10127820	
Receptacle Housing	#2~#24	PA66, UL 94V-0, natural color	10127815	
Plug Housing	#2~#24	PA66, UL 94V-0, natural color	10127816	
Female Terminal	-	PhBr / Brass AWG 16~22 AWG 24~28	10127817	
Male Terminal	-	PhBr / Brass AWG 16~22 AWG 24~28	10127818	

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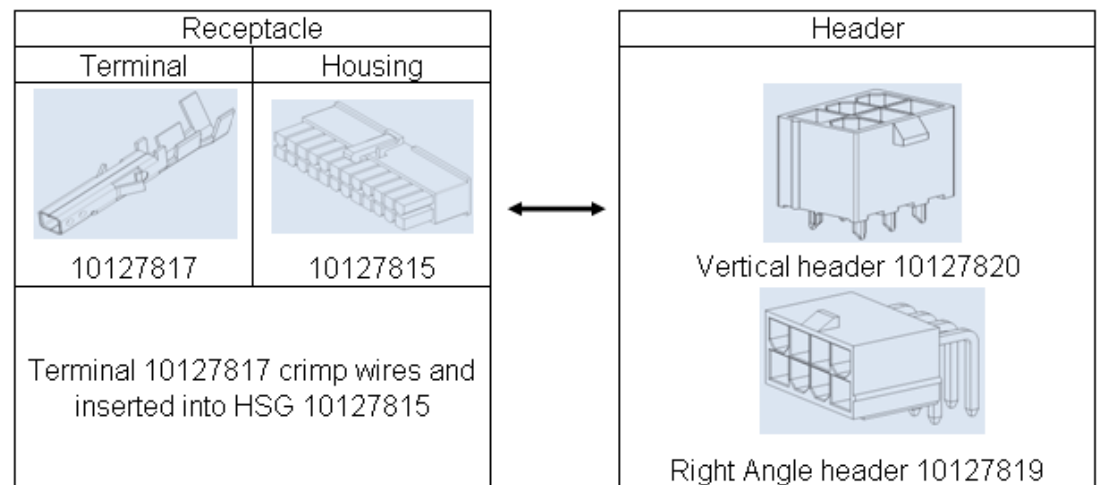


Mating

Wire-to-Wire



Wire-to-Board



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Collaterals

Available on FCI.com:

■ Technical Data Sheet



■ Part Numbers & Drawings

Narrow By		Expand	Start > Minitek Pwr™ 3.0 Connectors >		
Number of contacts					Search Again
Orientation					
Plating (Contact area)					
Series					
Results 1 - 20 of 126. Result page: 1 2 3 4 5 6 7					
Part Number	Image	Status	Product Name		
10127716-04LF		PRE-RELEASED	Minitek Pwr™ 3.0 Receptacle Housing, Dual row, 4 positions Glow Wire Compatible		
10127716-12LF		PRE-RELEASED	Minitek Pwr™ 3.0 Receptacle Housing, Dual row, 12 positions Glow Wire Compatible		
10127716-22LF		PRE-RELEASED	Minitek Pwr™ 3.0 Receptacle Housing, Dual row, 22 positions Glow Wire Compatible		
10127717-06LF		PRE-RELEASED	Minitek Pwr™ 3.0 Plug Housing, Dual row, 6 positions Glow Wire Compatible		
10127717-16LF		PRE-RELEASED	Minitek Pwr™ 3.0 Plug Housing, Dual row, 16 positions Glow Wire Compatible		
10127717-24LF		PRE-RELEASED	Minitek Pwr™ 3.0 Plug Housing, Dual row, 24 positions Glow Wire Compatible		
10127719-001PLF		PRE-RELEASED	Minitek Pwr™ 3.0 Male Terminal, PHBr, Tin plating, Pre-plated		
10127720-122LF		PRE-RELEASED	Minitek Pwr™ 3.0 header, Dual row, Right-Angle Through hole, Gold Flash plating, 12 positions, non Glow Wire Compatible		
10127720-202GLF		PRE-RELEASED	Minitek Pwr™ 3.0 header, Dual row, Right-Angle Through hole, Gold Flash plating, 20 positions Glow Wire Compatible		



THANK YOU

