

Minitek® Pwr Hybrid 4.2 & 3.0 Product Presentation

Basics Portfolio



Agenda



- Value Proposition
- Product Overview
- Product Specifications
- Features & Benefits
- Part Numbers
- Markets & Applications
- Marcomm Collaterals



Value Proposition

Minitek® Pwr Hybrid 4.2 & 3.0 connectors are designed for **power and signal application** with current rating **up to 9A** per circuit for **4.2mm** and **5A** per circuit for **3.0mm**, available for **dual row** and **2 to 24 power** circuits, and **2 to 12 signal** for Wire-to-Board application.

Crimp, snap-in receptacle contacts are used to terminate discrete wires.

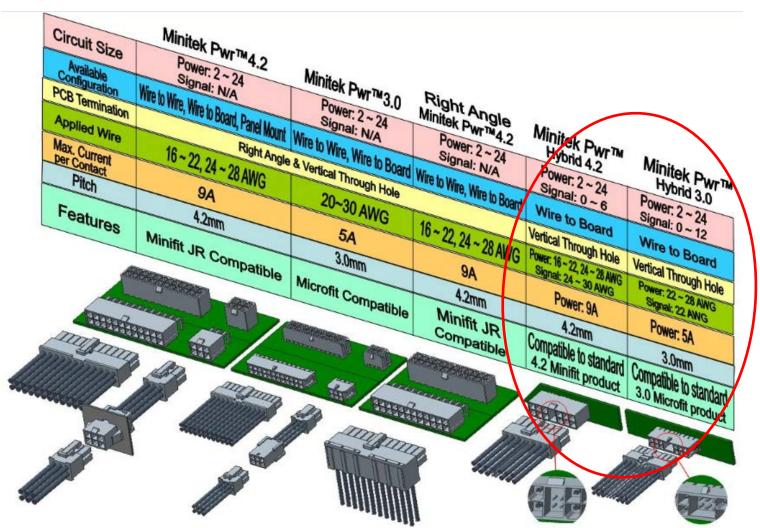
Receptacle housings allow Wire to-Board configurations and Board mounted vertical headers support Wire-to-Board interconnections.

Wave soldering headers are available in through-hole configuration.

Crimping and removal tools are available for wire harness assembly...



Solution Overview



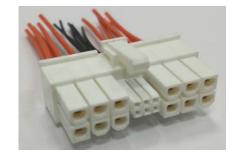


Solution Overview

Minitek® Pwr Hybrid 4.2 & 3.0 Wire-to-Board connectors are designed in 2 rows. Power pitch is 4.2mm & 3.0mm, and signal pitch is 2.0mm. And, they are the vertical type.

Minitek® Pwr Hybrid 4.2





Minitek® Pwr Hybrid 3.0







Product Specifications

Product Facts

- Power & Signal Hybrid design
- Two-Row Symmetric design with active latching
- High Temperature performing plastic for header
- Variety of Positions, Power 4~24 and Signal 2~12

Electrical Performances

- Current Rating
 - 4.2: 9AMax /Power contact; 1A /Signal
 - 3.0: 5AMax /Power contact; 1A /Signal
- Insulation Resistance: 1000 MΩ min.
- Dielectric withstanding voltage: 1500 V

Mechanical Performances

■ Mating cycles: 30

Environmental

■ Operating Temperature : -40~105°C

Technical Data

- Housing: High temperature resin for header, and Nylon66 for receptacle.
 - 4.2: Natural color
 - 3.0: Black color
- Pin: copper alloy
- Plating: Gold, GXT or Tin over 1.27µm (50µ") nickel

Specifications

- Product specification
 - 4.2: GS-12-1288
 - 3.0: GS-12-1287

Packaging

■ Header in Tray, Receptacle Housing in PE bag, Terminal in reel



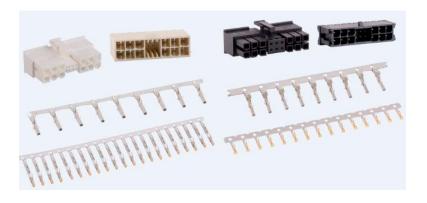
Features & Benefits

Features	Benefits
Separated power and signal contacts	Provide power contacts for power distribution and signal contacts for power control
Flexible modular design	Number and placement of power and signal contacts are highly configurable for customer power needs
Flexible design with signal pin	Backward mateable with traditional 4.2mm &3.0mm power connector if signal pin is absent
Power pin is separated by signal pin in center position	Better heat dissipation, hence better current rating capability
Enlarged active latch with low thumb latch operation	Prevents unexpected unmating and provides secure locking mechanism
Signal pin with lower insertion and extraction force than power pin	Relatively easy to mate and un-mate compared to the similarly configured traditional 4.2mm power connector
Available in UL94V-0 flammability	High flammability rating
RoHS compliance and Lead free	Meet environmental, health and safety requirements



Part Numbers

Item	Product series	Product	Description
1	10129817	Minitek Pwr Hybrid 4.2	Vertical through-hole header
2	10129815	Minitek Pwr Hybrid 4.2	Vertical through-hole receptacle housing
3	10129084	Minitek Pwr Hybrid 4.2	Receptacle Power terminal
4	10134048	Minitek Pwr Hybrid 4.2	Receptacle Signal terminal
5	10129811	Minitek Pwr Hybrid 3.0	Vertical through-hole header
6	10129812	Minitek Pwr Hybrid 3.0	Vertical through-hole receptacle housing
7	10129814	Minitek Pwr Hybrid 3.0	Receptacle Power terminal
8	77138	Minitek Pwr Hybrid 3.0	Receptacle Signal terminal AWG26-30
9	10044403	Minitek Pwr Hybrid 3.0	Receptacle Signal terminal AWG22-24



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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

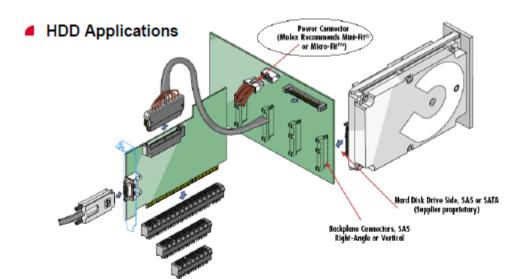
- HDD
- Rack Mount Server
- Server
- Desktop Pc and MotherBoard

Telecommunications

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

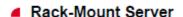
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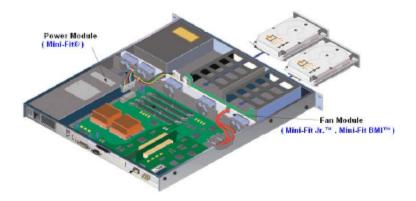
Main Markets & Application



Major Data Applications:

- Desktops/ tower
- High end computers
- Storage
- Servers
- Networking Equipment
- Power supplies





Fan Module (Mini-Fit Jr. 7 , Mini-Fit BMI 74) Power Supply Module (Mini-FitD)

Blade Server

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Collaterals

Available on FCI.com:

■ Technical Data Sheet

▶ BOARD/WIRE-TO-BOARD

CONNECTORS







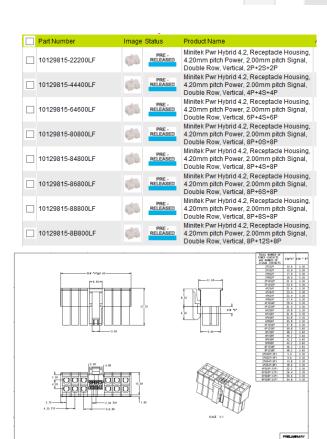
Collaterals

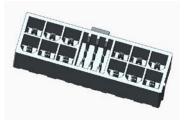
Available on FCI.com:

Part Numbers

Pre-Release Drawings

3D Views







THANK YOU

