

Minitek127® 1.27mm

Product Presentation

Amphenol Information Communications
and Commercial Products

≡ **FCi Basics**

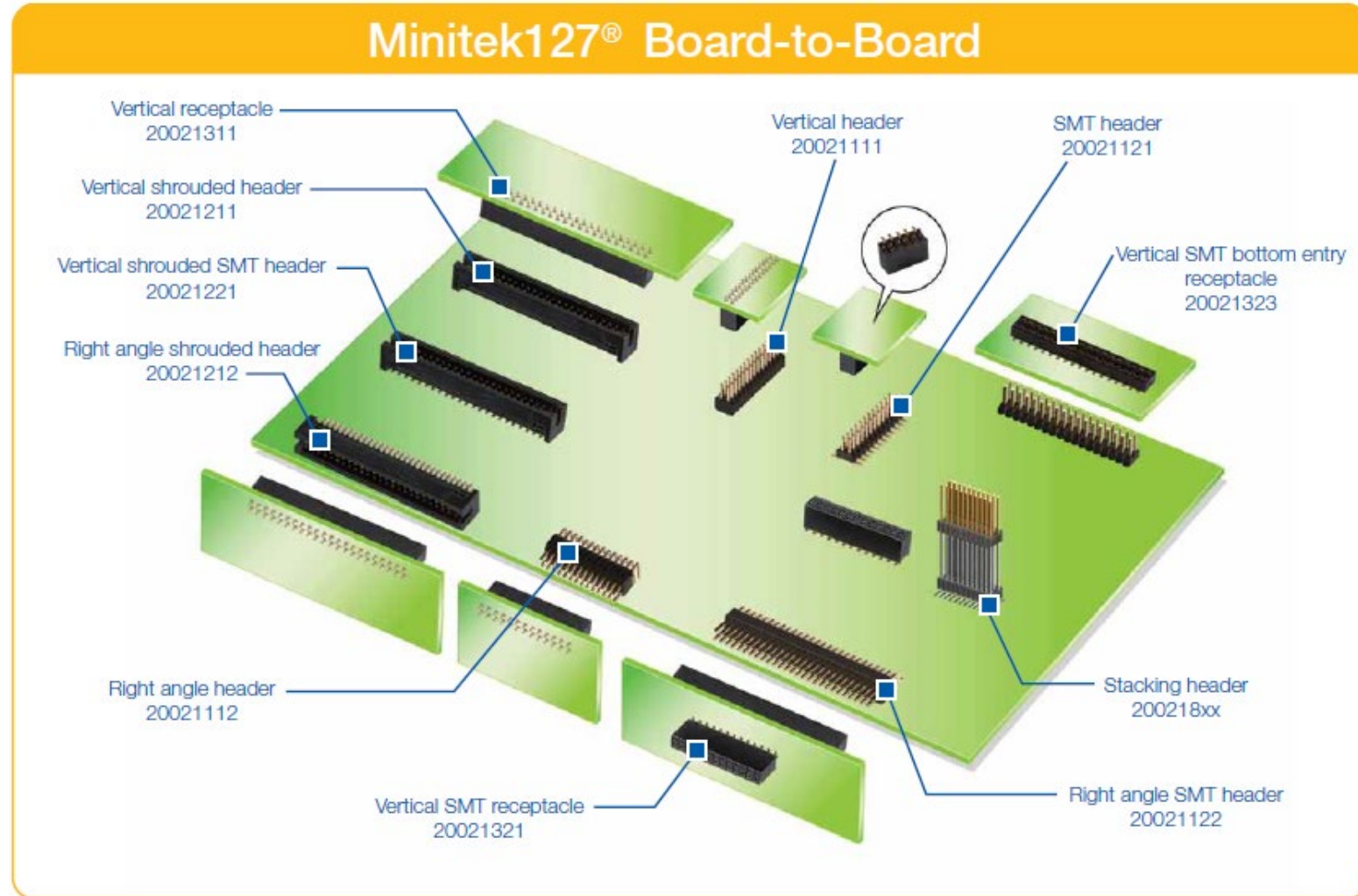
Amphenol ICC

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

- Minitek127® is an extensive modular solution able to cover all customer needs and saving time and qualification cost.
- The Minitek127® comprehensive offer includes straight and right angle, surface mount and through mount, pin headers and board receptacles in different plating variations and position numbers up to 100, including an IDC version.
- Minitek127® comes in three duplex plating versions - 30µin, 15µin GXT®, 10µin gold and Gold Flash, to support applications in a wide range of environments.
- The Minitek127® is ideal for Communications, Medical, Industrial & Instrumentation and Automotive.

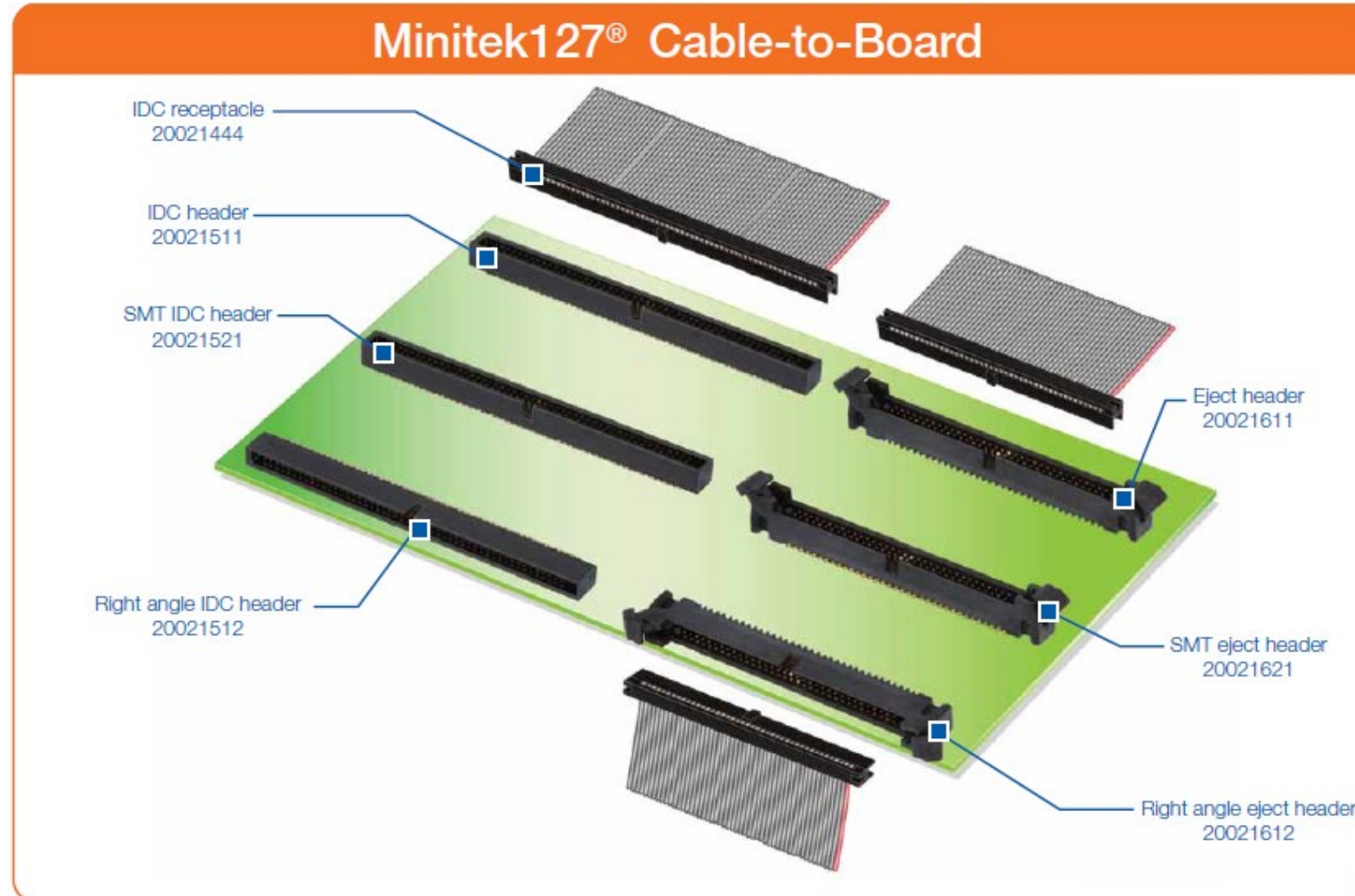
Minitek127® 1.27mm

Product Overview Board to Board



Minitek127® 1.27mm

Product Overview Cable to Board



Minitek127® 1.27mm

Product Specifications

Specifications

- Pitch: 1.27mm
- Board-to-Board and IDC Cable-to-Board
- High Temperature performing plastic
- Plating options

Materials

- Housing : High temperature black thermoplastic
- Flammability rating: UL94 V-0
- Pin: copper alloy
- Plating: Gold or GXT over 1.27μm (50μ") nickel

Electrical Performances

- Current Rating: 1A continuous
- Insulation Resistance: 1000 MΩ min.
- Dielectric withstanding voltage: 500 V

Mechanical Performance

- Mating cycles: 100

Environmental

- Operating Temperature: -55~125°C & -40~85 °C

Specification

- Product Specification: GS-12-629

Packaging

- Tube, Tape and Reel

Minitek127® 1.27mm

Features and Benefits

Features	Benefits
3 Duplex plating versions (30u" ,15" GXT, 10u" gold and Gold Flash)	Allows for applications in a wide range of environments (less demanding to severe)
Packaging: Tape on reel with pick up cap or tube without pick up cap	Facilitates automated pick & place assembly
Both top and bottom entry product available	Meet specific needs and is useful for Mezzanine Application
Standoff design	Allow cleaning to eliminate soldering contaminations
Post options for SMT product	Easy for customer design and process
Customized stacking header	Suitable for specific designs

Minitek127® 1.27mm

Part Number

Example

20021221 = shrouded SMT vertical header

2 0 0 2 1 A B C

A = TYPE

- 1 = unshrouded header
- 2 = shrouded header
- 3 = receptacle
- 4 = IDC
- 5 = IDC header
- 6 = IDC eject header
- 7 = CTW
- 8 = stacking header
- 9 = customization

B = ATTACH

- 1 = TH
- 2 = SMT
- 3 = PIP
- 4 = not applicable

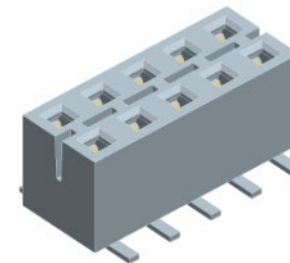
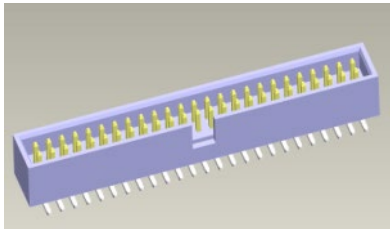


= TH (Through Hole)

= SMT (Surface Mount)

C = ORIENTATION

- 1 = vertical
- 2 = right angle
- 3 = vertical alternative
- 4 = other



	Through Hole		Surface Mount	
	Vertical	Right Angle	Vertical	Right Angle
Unshrouded headers	20021111	20021112	20021121	20021122
Shrouded headers	20021211	20021212	20021221	
Receptacles	20021311		20021321	
IDC	20021444			
IDC headers	20021511	20021512	20021521	
Eject headers	20021611	20021612	20021621	

Minitek127® 1.27mm

Stacking Height Matrix

	Through Hole		Surface Mount	
Mating Height	6.8mm	8mm – 15mm	6mm	8.5mm – 15mm
Based on	Standard Receptacle	Stacking Header	Standard Receptacle	Stacking Header
Receptacle	20021311	20021311	20021321	20021321
Header	20021111	2002181x, 2002182x	20021121	2002183x

Minitek127® 1.27mm

Main Markets & Applications

Industrial, Instrumentation & Medical



Communications market



Consumer market



Data market



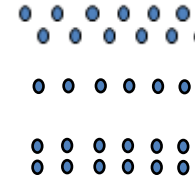
Minitek127® 1.27mm

Additional information

- [Minitek127® Datasheet](#)
- [Minitek127® Product Presentation](#)
- [Minitek127® Product Specification](#)

- **Header** *Housing with pins (Male connector)*
- **Receptacle** *Female Housing*
- **Terminal** *CTW contact*
- **Latch** *Active latch*

- **STG** *Staggered (signal contacts placed on staggered row)*
- **SR** *Simple row (contacts placed on 1 side to side row)*
- **DR** *Double row (contacts placed on 2 side to side row)*
- **Horizontal** *Connection axis parallel to the board*
- **Vertical** *Connection axis perpendicular to the board*



The top portion of the slide features a complex, low-poly geometric pattern in various shades of blue, ranging from dark navy to light sky blue. This pattern transitions into a solid white background for the main text area.

Thank you