

IDC Micro-module Material



Article Overview

IDC micro-modules are pre-fabricated, modular units designed for rapid deployment, energy efficiency, and flexible expansion in data centers.

Micro-modular Data Center Materials and Structure

IDC micro-modules are composed of pre-fabricated modules that integrate all essential subsystems, including power supply, power distribution, cooling, cabinets, aisle closures, integrated cabling, and intelligent management systems . Each module is designed to operate independently, forming a complete and functional IDC space. The materials used in these modules are selected for durability, energy efficiency, and ease of maintenance, often including:

- Steel or aluminum frames for structural integrity and modular assembly
 - High-efficiency cooling components such as precision air conditioners and heat exchangers
 - Pre-installed cabling and connectors for rapid integration
 - Energy-saving technologies that improve refrigeration efficiency by 12% or more compared to conventional data centers
- The micro-modular design allows for rapid factory pre-assembly, reducing on-site installation time by nearly one-third, and supports future expansion by adding additional modules as needed .

Functional Advantages

- **Energy Efficiency:** Advanced materials and cooling systems reduce power consumption and improve operational efficiency....

Article Content

Aug 24, 2025

Design and Optimization of Interdigitated Microwave Sensor for ...

This paper presents an interdigital capacitor (IDC)-based high sensitivity microwave sensor for the multidimensional (complex

Nov 20, 2025

IDC (electrical connector)

Modular connectors used with Category 5 twisted pair cable require careful arranging of the conductors by

Mar 27, 2026

3M IDC Connectors

Insulation Displacement Contact technology All 3M signal, power, and network connectors included in this brochure feature

May 21, 2026

IDC type terminal blocks

The product family of IDC terminals comprises terminals based on the principle that stripping of conductors is no longer required.This

Dec 21, 2025

IDC Connectors | RS

IDC is short for Insulation-Displacement Connector. These electrical connectors are designed for ribbon cables and

May 01, 2026

Micromodule Data Center IDC Data Center/Server Rack Cabinet

Micromodule Data Center IDC Data Center/Server Rack Cabinet Cooling System Precision Air Conditioner /Cold Aisle

Mar 26, 2026

Product - Lumberg

In order to assure safe function of the connectors they must be processed with Lumberg harnessing

Jan 22, 2026

IDC-Connector | IDC-Kabel | IDC-Steckverbinder | RS

IDC ist die Abkürzung für Insulation Displacement Connector (Schneidklemmverbinder). Diese elektrischen Steckverbinder wurden

Aug 28, 2025

Insulation Displacement Connectors (IDCs): A Comprehensive Overview

Insulation Material: The insulation material of the wire must be compatible with the IDC contacts and be able to withstand the piercing

Nov 26, 2025

InterDigitated Capacitor (IDC) – SnPb

The InterDigitated Capacitor (IDC) utilizes both primary and secondary methods of reducing inductance. The IDC architecture shrinks

Apr 27, 2026

IDC – Insulation Displacement Connector

IDC is insulation displacement is a electrical connector, an advanced replacement of solder and, used to connect only solid

Jan 08, 2026

Computing Services

The data center comprises four micro-modules. Each module can operate on its own and can be assembled in an independent and

Sep 21, 2025

Insulation Displacement Contact (IDC)

Our high reliability IDC Technology conforms with IEC 60352-5 and can be adapted for application-specific

Mar 18, 2026

Insulation displacement connection technology

The insulation displacement connection in detail The insulation displacement connection (also known as

Apr 20, 2026

Computing Services

Delta's micro-modular data center was selected by China telecom clients as one of nine major internet data centers (IDCs) in a

Nov 20, 2025

3M IDC Connectors

Invented by 3M in 1961, IDC connectors allow technicians to terminate multiple wires simultaneously without wire stripping for fast,

Dec 11, 2025

krone idc module

Krone idc module is a type of module used in telecommunications and electrical wiring for quick and easy connection of wires.

Apr 16, 2026

Insulation displacement connection technology

RJ45 connectors with insulation displacement connection (IDC) technology can be assembled easily and safely in the field without

Jan 26, 2026

IDC Cables, IDC Connectors, FFC Cables, Ribbon

Tiger Eye™ IDC cables, IDC connectors, FFC cables and connectors, & ribbon cable connectors with high

Apr 15, 2026

Demand for prefabricated modular and micro data center ...

New Omdia research reveals that the market for prefabricated modular and micro data centers will reach \$11.7bn by

Jan 15, 2026

Insulation Displacement Contact (IDC)

A global leader in solderless contact technology, Interplex has been producing Insulation Displacement Contacts for top-tier

Feb 18, 2026

Insulation Displacement Connections

- Insulation Displacement Connections - Passive Components Blog Insulation Displacement Connectors (IDC) are

Mar 18, 2026

Micromodule Data Center, IDC Data Center, Micro Module Data

Micromodule Data Center, IDC Data Center, Micro Module Data Center Solution, Find Details and Price about Data Center Rack

Feb 23, 2026

Griplet Miniature IDC Connector | FCI Basics | Wire-to-Board Connectors

FCI Basics Griplet ® Miniature IDC Connector offers a robust solution for miniature IDC wire-to-board connections. Its

Nov 29, 2025

IDC (electrical connector)

An insulation-displacement contact (IDC), also known as insulation-piercing contact (IPC), is an electrical

Dec 17, 2025

IDC Connector | Wire to Board | Flat Cable Connectors

Reliable IDC Solutions for Fast, Efficient Cable-to-Board Connections Design using

Apr 18, 2026

DIN IDC Cable Connectors and Cable Assemblies

DIN IDC cable connectors are available in 4 connector sizes as 96, 42, 21 and 9 positions. Available in wire sizes 30AWG to

Jan 18, 2026

IDC Connector: Insulation Displacement Contact

Example of IDC connectors in a small module What is an IDC connector? Insulation displacement connectors use the concept of

Mar 20, 2026

Ultra-Flexible Micro IDC Cable

Cicoil's ultra-flexible micro IDC cable has a temperature rating of -65°C to +260°C making

Feb 23, 2026

SKEDD Technology IDC Connectors Assembly | DigiKey

By using direct plug-in insulation displacement connectors (IDCs) designers can streamline assembly and lower their

Jun 02, 2026

CW INDUSTRIES IDC SELECTION GUIDE

In addition to our patented Torq-Tite™ contact, other significant design advantages include ruggedness of construction, ease of

Apr 19, 2026

IDC Solutions

Amphenol offers the FCI Basics Minitek® series of IDC connectors for cable-to-board

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IDC Connector Guide: How It Works, Types & Applications

IDC (Insulation Displacement Connector) explained: working principle, M12 IDC variants, pin configurations, and

May 16, 2026

How do IDC connectors work, and what tools should I use?

IDC (Insulation Displacement Contact) connectors work by forcing the connector through the insulated jacket on the

Apr 19, 2026

IDC or Crimp? May The Best Connector Win.

IDC or Crimp? When discussing options for cable assemblies, designers frequently ask if

Jun 09, 2026

Exploring Idc Contacts: Material Grades, Properties, and Uses

The base material of IDC contacts is typically phosphor bronze or beryllium copper, chosen for their excellent spring properties and

Contact Us

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