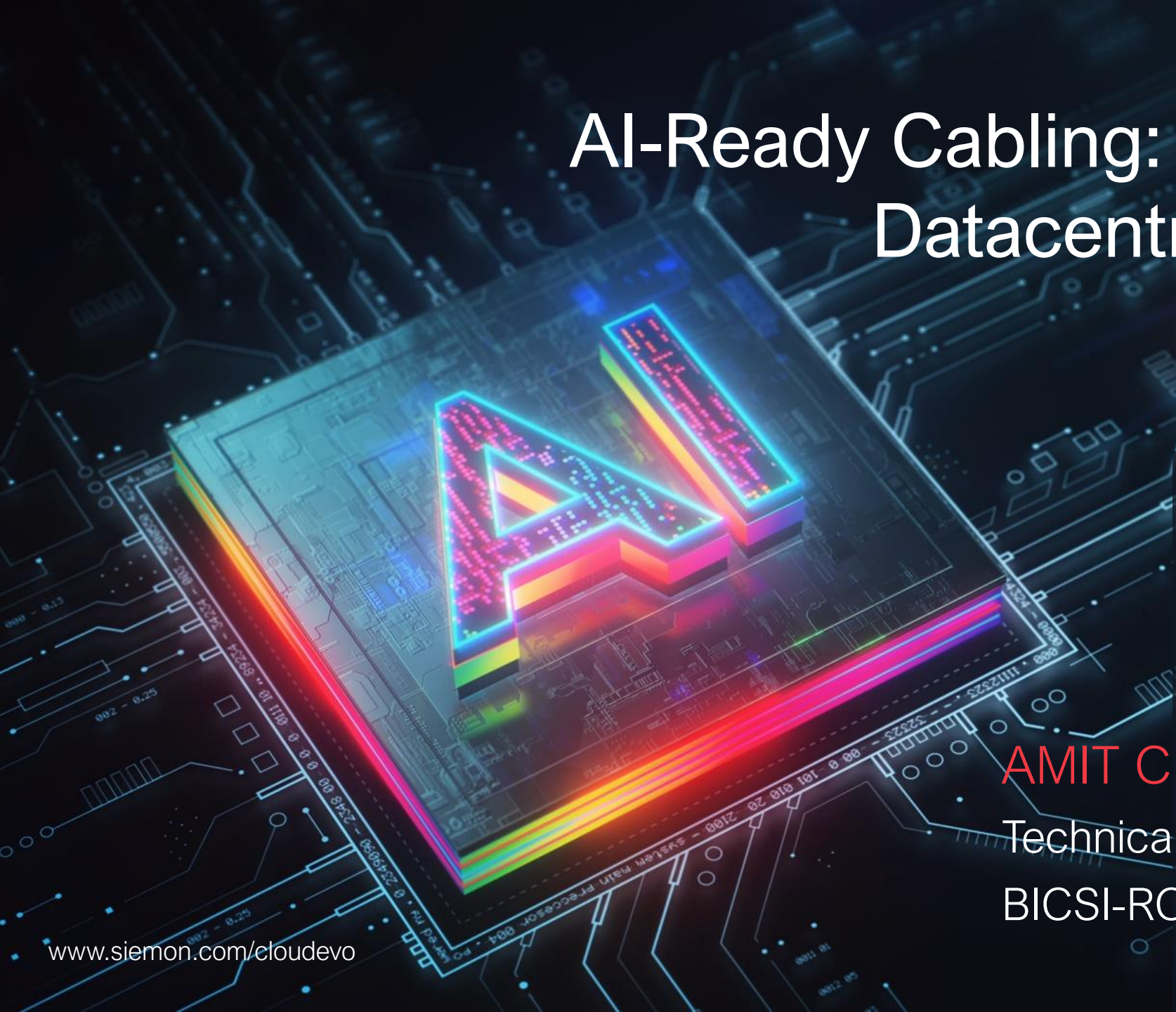
SIEMON™

We exist to connect the world

AI-Ready Cabling: Future-proofing Datacentre Infrastructure



SIEMON™

AMIT CHAND

Technical Manager- NORTH INDIA

BICSI-RCDD & DCDC

www.siemon.com/cloudevo

OUR LONGEVITY & STABILITY

The same name in quality, service, innovation and value since 1903

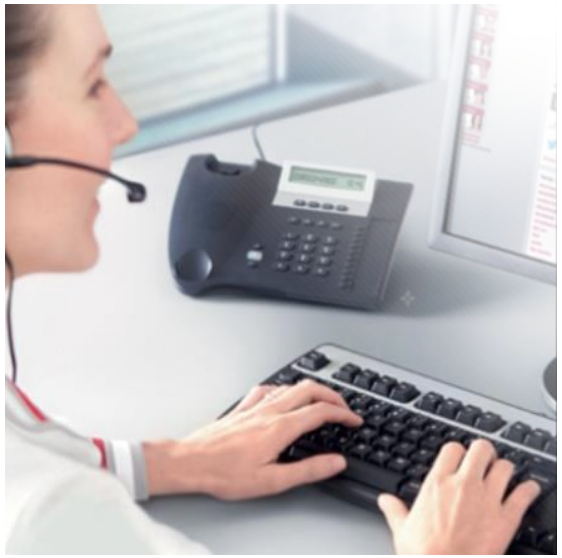
Founded by Carl F. Siemon, a gifted chemist with a unique hardened plastic compound

Our cabling and connectivity began with the 3-pole connecting block manufactured for AT&T

OUR LONGEVITY & STABILITY

Stable with 5 generations still going strong

Flat organization with customer access to senior management



Resourceful, agile and responsive without the bureaucracy

SIEMON 120 YEARS OF INNOVATION 1903-2023

FOUNDED IN
1903
Headquartered in USA

PRESENCE IN OVER
100
COUNTRIES

OVER
400
ACTIVE PATENTS

OVER
50%
OF THE FORTUNE 500 LIST

ISO 9001:2015

CERTIFIED ISO14001

OUR PEDIGREE

THE WORLD'S LEADING ORGANIZATIONS RELY ON SIEMON

Some of our customers:

amazon

DXC TECHNOLOGY

HSBC

Abbott

Deloitte.

BARCLAYS

Johnson & Johnson

MERCK

IBM

"By working with Siemon to deliver innovative products, IBM has been able to provide clients with a flexible and efficient data center solution, closer to clients, manufacturing sites and remote operations."

CREDIT SUISSE

"Testing revealed that the Siemon solution performed far better than the competition, so the technological decision was easy. When we considered other factors, such as experience, warranty, field support, and simplicity of maintenance, we came to the conclusion that Siemon offered the best overall value for CSFB's network infrastructure."

SURF SARA

"100 Gb/s is our standard today and we are looking to migrate more of our services from 10 to 100Gb/s. Siemon's high-performance cabling solutions have certainly enabled us to achieve this."

Supported by Industry Leading Partnerships

Over the years we've developed an eco-system of data center partners who are all specialists in what they do.

We prides ourselves on partnering with global leaders that provide complementary products and services which combine with our own best-in-class IT infrastructure solutions to deliver additional value and support to our customers.

NVIDIA Partner Network (NPN)

Solution Advisor - Consultant

- Partners that provide consultation services and expert advice to customers looking to implement NVIDIA-based solutions or technologies

https://marketplace.nvidia.com/en-us/partners/?name=siemon

OUR ONGOING COMMITMENT

SIEMON SUSTAINABILITY PLEDGE

SSP

- Reduce our carbon footprint
- Minimize all forms of waste
- Eliminate pollution & support biodiversity
- Produce & deliver safe products
- Share, listen and act

GOLD 2023 ecovadis Sustainability Rating

SEAL AWARD WINNER 2024

OUR COMMITMENT

WE'RE **179%**
CARBON NEGATIVE

Siemon Capabilities & AI Solutions

SIEMON™

Siemon Solutions

1

High-Density Splicing Solutions

Fiber Splice Enclosures handle up to 1,728 fibers from Service Providers into the entrance facility.

2

Automated Infrastructure Management (AIM)

The MapIT G2 AIM solution enables remote monitoring and real-time view of data center connections and tracks available switch and copper and fiber patch panel ports.

3

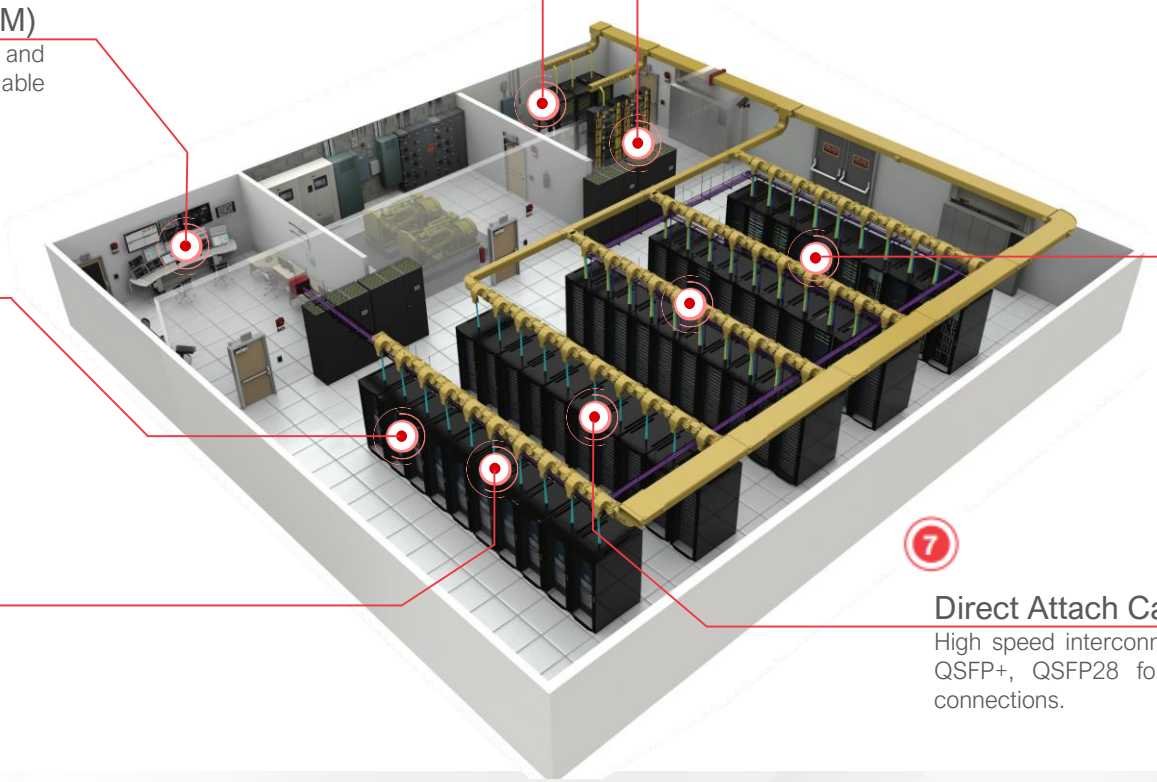
Category 6A Shielded Cabling System

Category 6A shielded patch panels, pre-terminated assemblies and patch cords provide flexibility for 10 gigabit server or console management connections in end-of-row and middle- of-row configurations.

4

Racks & Cable Management

2 and 4-post racks and range of cable management.



5

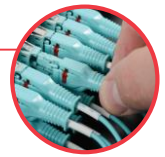
Pre-Terminated Fiber Solutions & High-Density Patching

Base-8 and Base-12 singlemode and multimode MTP trunks, modules (Plug and Play), adapters, cassettes and MTP jumpers with high-density LightVerseTM fiber enclosures that support uplinks from leaf-to-spine and server connections.

6

Fiber Cross-Connects

High-density fiber patching and cross-connect spaces utilize low-profile LC BladePatch cords with push-pull access.



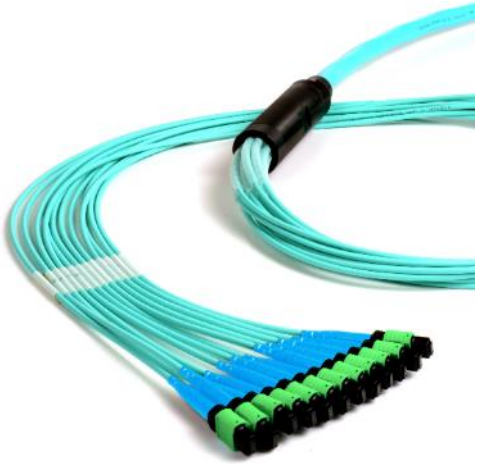
7

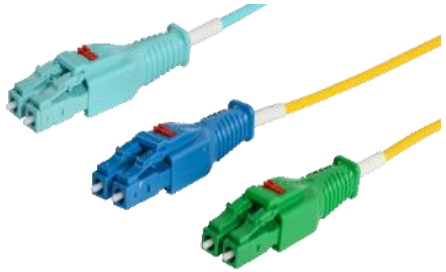
Direct Attach Cables and Active Optical Cables

High speed interconnect assemblies available in SFP+, SFP28, QSFP+, QSFP28 form factors for switch-to-server downlink connections.

© 2022 Siemon

AI-Ready Fiber Solutions

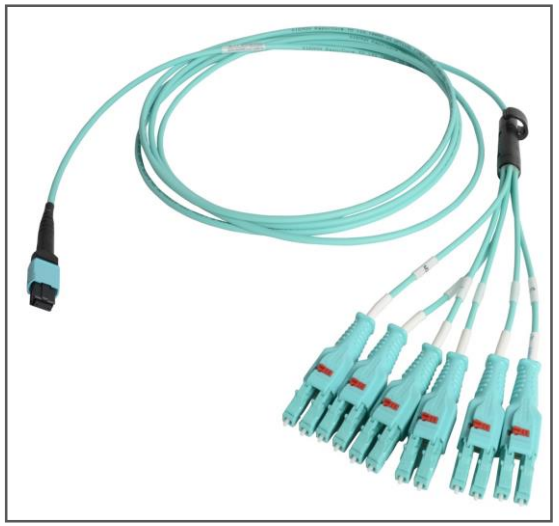
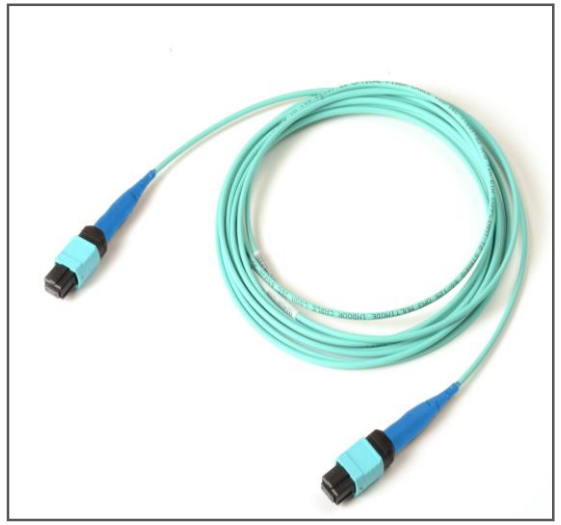
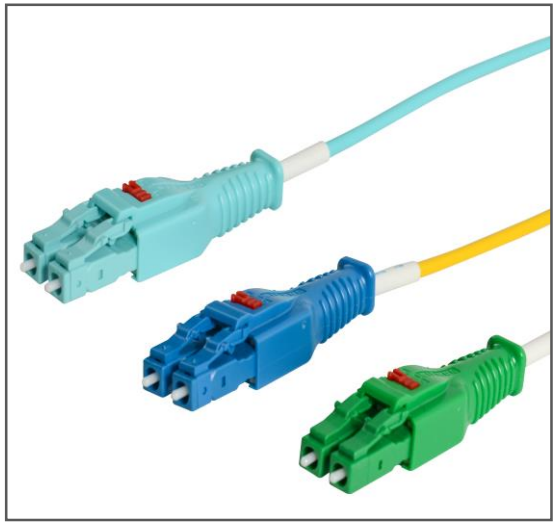




- Base-8 MM MTP/APC & MTP/UPC & OS2 Trunks in 8/16/32/64/128/144 fiber counts
- Base-8 MM MTP/APC & MTP/UPC & OS2 Jumpers
- 400G to 2x200G MM& SM Conversion Cords
- LightStack ® Ultra High Density Fiber System- Enclosures, Modules & MTP Adapter Plates
- LightVerse® Fiber System – Enclosures, Panels, Modules & MTP Adapter Plates
- Ultra-Low Loss Performance in both SM & MM
- Innovative LC BladePatch® connector w/UniClick™

Cabling Options

- Pre-terminated trunks, equipment cords, conversion cords & fiber jumpers available
- All factory terminated & tested to industry standards for quality & performance
- Available in Singlemode or Multimode & Base-8 or Base-12 configurations with various connector options
- High quality RazorCore™ in all our trunks for optimal performance & space utilization
- Innovative LC BladePatch™ connector available, featuring UniClick™ polarity reversal & push-pull uniboot. Ideal in the densest environments.

LightStack® Ultra-High Density Enclosure Platform

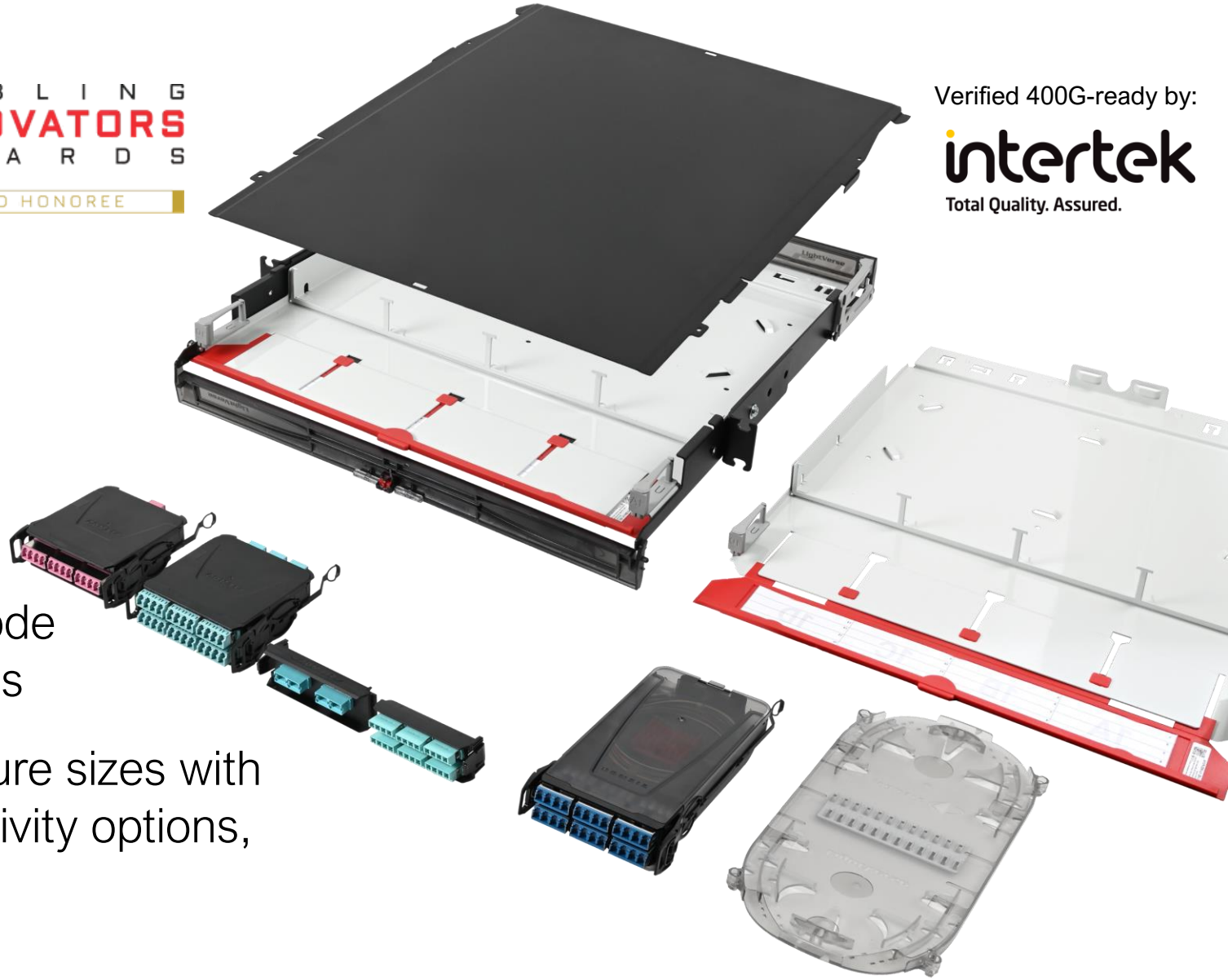
- The Platform
  - Enclosures – LightStack and LightStack 8
  - Plug and Play™ Transition Modules
  - Adapter Plates
  - LightStack Surface Mount Fiber Enclosure
- 72 x LC duplex or 72 x MTP ports per 1U
- Base-8 or Base-12
- Available in 1U & 4U

LightVerse®

CABLING INNOVATORS AWARDS
GOLD HONOREE

Verified 400G-ready by:
intertek
Total Quality. Assured.

- First 3rd-party verified 400G-ready solution in the industry
- Supports up to 96-fibers in 1U, for all termination types
- Available in Singlemode or Multimode & Base-8 or Base-12 configurations
- Available in 1U, 2U and 4U enclosure sizes with a comprehensive range of connectivity options, including Ultra-Low Loss (ULL).



LightVerse® Combo Panel | Patch Panels

- Available in flat and angled 1U configurations
- Supporting up to 96-fibers or 48-copper connections in 1U
- Interoperable with existing LightVerse fiber optic connectivity, as well as our innovative 6-port copper cassette

Angled Patch Panel

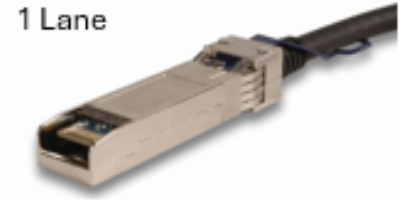
Flat Patch Panel

AI Ready - DAC & AOC Solutions

50G per Lane Connector Overview

DAC & AOC

SFP
Small Form Factor Pluggable
1 Lane



QSFP
Quad-Small Form Factor Pluggable
4 Lanes*

QSFP-DD
Quad-Small Form Factor
Pluggable Double Density
8 Lanes

SFP-DD
Small Form Factor
Pluggable Double Density
2 Lanes

OSFP-RHS
Octal-Small Form Factor Pluggable
Riding Heat Sink
4 Lanes*#

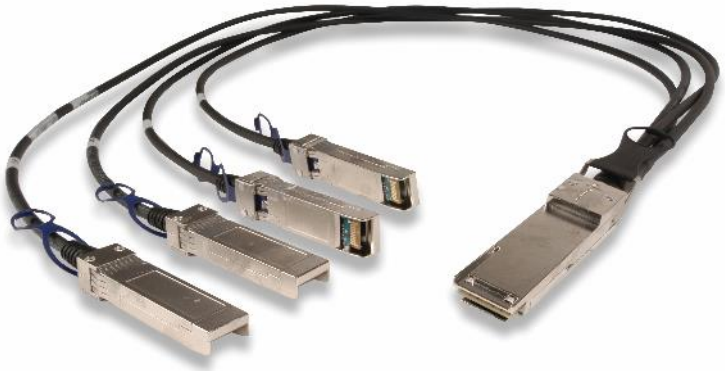
*Can be half loaded (2 Lanes)

OSFP-FT
Octal-Small Form Factor Pluggable
Finned Top
8 Lanes#

*FT = Switch Side Only ; RHS = NIC/HCA Side Only

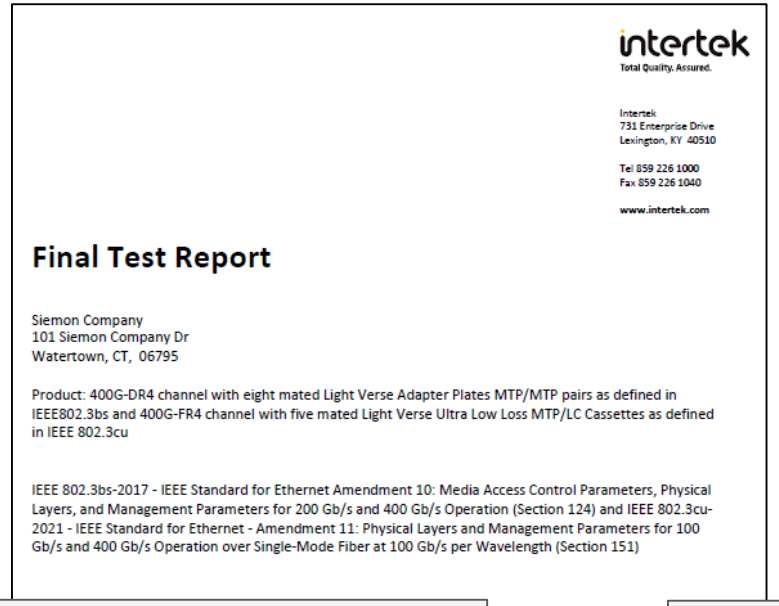
DACs and AOCs - **10 to 800G**

- Simplified Channels – Removes potential additional points of failure with the use of Transceivers
- Factory Tested – Giving you peace of mind they will meet/exceed industry standards
- Interoperability – MSA Compliance ensures interoperability with vendor equipment
- Fast lead times – Product(s) held in stock for quick turnarounds on requests
- Length & Diameter – Flexibility of HSI lengths (from 0.50m in half meter increments) & smaller diameter cable assemblies result in:
  - Increased cable management control
  - Increased air flow for efficient cooling
- Color Options – Can be used to differentiate link type, link speeds or A&B routes (redundancy links).
  - Achievable with colored cable or clips for easier link identification



3rd Party 400G SM ULL Testing

intertek
Total Quality. Assured.



intertek
Total Quality. Assured.

Intertek
731 Enterprise Drive
Lexington, KY 40510

Tel 859 226 1000
Fax 859 226 1040

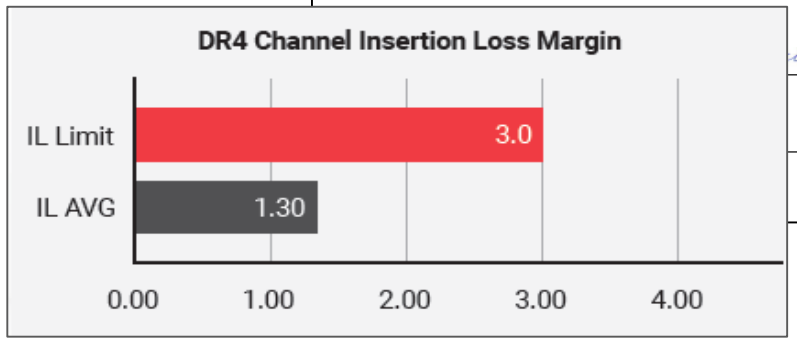
www.intertek.com

Final Test Report

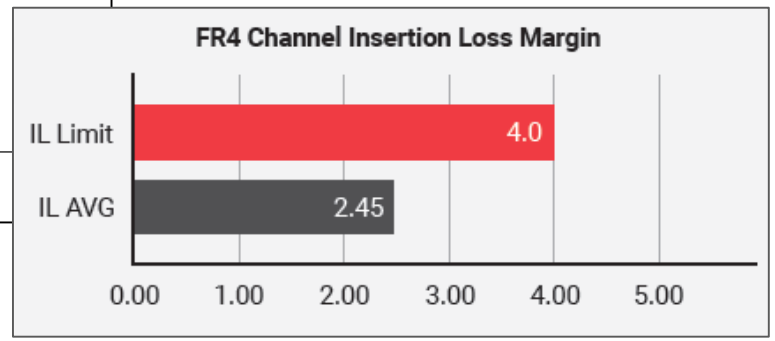
Siemon Company
101 Siemon Company Dr
Watertown, CT, 06795

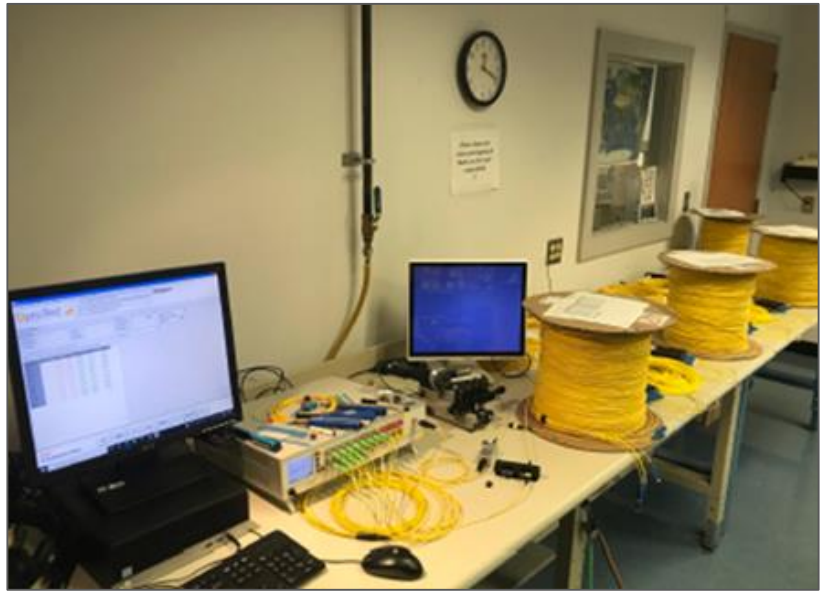
Product: 400G-DR4 channel with eight mated Light Verse Adapter Plates MTP/MTP pairs as defined in IEEE802.3bs and 400G-FR4 channel with five mated Light Verse Ultra Low Loss MTP/LC Cassettes as defined in IEEE 802.3cu

IEEE 802.3bs-2017 - IEEE Standard for Ethernet Amendment 10: Media Access Control Parameters, Physical Layers, and Management Parameters for 200 Gb/s and 400 Gb/s Operation (Section 124) and IEEE 802.3cu-2021 - IEEE Standard for Ethernet - Amendment 11: Physical Layers and Management Parameters for 100 Gb/s and 400 Gb/s Operation over Single-Mode Fiber at 100 Gb/s per Wavelength (Section 151)



Issue Date:
1/31/2022





Industry Involvement

SIEMON™

Industry Standards & Organizations

Siemon is Involved Where it Counts

ethernet alliance

Participation in marketing, webinars and interoperability testing

INFINIBAND™ TRADE ASSOCIATION

Participation in standards working groups & interoperability testing

IEEE

Participation in relevant copper & fiber standards working groups

Thank you.

www.siemon.com

SIEMON™