Open, Efficient & Intelligent: Smart Infrastructure Solutions

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OPEN. FOR BUSINESS.
Serving Customers in 104 countries

Products
- Infrastructure
- Power Electronics
- Automation

Solutions
- Data Center
- Telecom Power
- Industrial Automation
- Building Automation
- Renewable Energy

<table>
<thead>
<tr>
<th>Asia-Pacific (China)</th>
<th>Americas</th>
<th>EMEA</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales Offices</td>
<td>104 (61)</td>
<td>20</td>
<td>39</td>
</tr>
<tr>
<td>Plant Sites</td>
<td>32 (19)</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>R&amp;D Centers</td>
<td>43 (23)</td>
<td>9</td>
<td>12</td>
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</tbody>
</table>
Open – Efficient – Intelligent: Infrastructure

Efficient - Intelligent

Managed

Open

Distribution & Management

Rack & Accessories

Networks
Delivering on “Open” promise: Conventional Approach

Data Center

Delta 100GbE/400GbE Optics

100/400GbE Spine

BGP/BFD/ECMP based Network

Delta 10/25/40GbE Optics

Super Spine

Delta Power shelf

AC Input & AC/DC Output

Delta Open Rack
Delivering on “Efficiency” promise: HVDC Approach

- 99% HVDC Battery
- 96.5% Delta Racks HVDC Input
- 92.6% Delta 100GbE/400GbE Optics
- 800/400VDC
- 100/400GbE Spine
- BGP/BFD/ECMP based Network
- Delta 10/25/40GbE Optics
- Delta 12KW Power shelf
- Super Spine
Delivering on “Efficiency” promise: Offline backup Approach
Delivering on “Open” Promise: Open Rack Portfolio

- Single AC I/P
  V1 open rack
  12.5V/ 12.5KW
- Dual AC Input
  V1 open rack
  12.5V/ 14KW
- Dual AC Input
  V1 open rack
  12.5V/ 28KW
- Dual AC Input
  V1 open rack
  12.5V/ 15KW
- Dual AC I/P
  V2 open rack
  12.5V/ 12.5KW
- Single AC I/P
  V2 open rack
  48V/ 33KW
Delivering on “Open” Promise: Agema® Open Networks Portfolio

1 GB E

10 GB E

25 GB E

100 GB E

100/200/400 GB E

1 RU: PoE/non PoE

1 RU: Fiber, Copper, Deep Buffer & Clocking

1 RU: Fiber, Deep Buffer & Clocking

1 RU, 2 RU, 4 RU, 6 RU: Fiber, Deep Buffer & Modular

Tomahawk/Tomahawk2

Tomahawk3/Trident3

Tomahawk+/Jericho+

Trident II/Qumran-MX

Halix4

1 RU, 4 RU, 6 RU: Fiber, Deep Buffer & Modular

Tomahawk3/Jericho2

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Delivering on “Efficiency” Promise: UPS Portfolio

Delta UPS Portfolio
Delivering on Efficiency Promise: Power Portfolio

AC / HVDC Inputs
12.5V/ 12KW Power Shelf

Three phase 30A ATS

Dual AC inputs
12.5V/ 14KW Power Shelf

Single AC inputs
48V/ 33KW Power Shelf

48V/ 33KW BBU

150KW HVDC Power Cabinet
Delivering “Efficiency” promise: Precision Cooling portfolio

RowCool 29/43KW, Chilled Water
RowCool 70/95 kW, Chilled Water
RowCool 35kW, Air-Cooled
Delivering on “Intelligent Device” promise: Smart Rack Management

AC line information, PSU status, output power, event log, etc.

Temp & Humidity Sensor, Smoke Sensor, Water Leak Sensor, Air Flow Sensor, etc.

Internet/Web Page

Real-time PUE & Power Usage

SNMP/ MIB file

Rack Level

Data Center Level

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Delta Optics Product Portfolios

**400G**
- 400G QSFP-DD AOC (Sample Q2'18)
- 400G QSFP-DD DR4 (Sample Q4'18)
- 400G QSFP-DD FR4 (Sample Q1'19)
- 400G QSFP-DD DR4 (Sample Q4'18)
- 400G OSFP-DD AOC (Sample Q2'18)

**2x100G**
- 2x100G QSFP-DD AOC
- 2x100G QSFP-DD CWDM4 (CS Connector) (Sample Q3'18)
- 400G QSFP-DD AOC (Sample Q2'18)
- 2x100G QSFP-DD LR4 (CS Connector) (Sample Q4'18)

**100G**
- 100G QSFP28 AOC
- 100G QSFP28 DR / FR (Sample Q4'18)
- 100G QSFP28 LR (Sample Q4'18)
- 100G QSFP28 LR (Sample Q4'18)
- 100G QSFP28 SR (Sample Q3'18)

**40G**
- 40G QSFP+ AOC
- 40G Fan out AOC
- 40G QSFP+ SR4
- 40G QSFP+ LR-Lite

**25G**
- 25G SFP28 AOC
- 25G SFP28 SR
- 25G SFP28 LR
Delta Accessories Product Portfolio

- Total Thermal Solution
  - Aerodynamic Tech.
  - Thermal & Mechanical Tech.
  - BLDC Motor Tech.
  - Controller & Driver Tech.

- Slim blower \( t=3\text{mm MP} \)
- Slim Heat pipe \( t=0.4\text{mm ready for MP} \)
- Vapor chamber \( t=0.5\text{~6mm ready for MP} \)
- Thermosiphon solution
- Liquid cooling solution

- HPAM
- Axial Fan
- Low vibration motor drive design
- Long life bearing system
- Low noise design

- Slim Heat pipe 
- Low vibration motor
- Long life bearing system
- Liquid cooling solution

To learn more about Delta, please visit www.deltaww.com or scan the QR code.