



# MATRIX 4 DATA CENTER AMSTERDAM SCIENCE PARK

# Matrix 4 Data Center Amsterdam Science Park



Matrix 4 Data Center is IPTP Networks' newly-constructed world-class data center, built using industry-leading solutions and technologies - APC InfraStruxure by Schneider Electric. Our scalable data center/IT room architecture allows our clients to deploy solutions with the highest levels of connectivity, security, adaptability and reliability all whilst being tailored and adapted to compliment the individual business model of each client.

Amsterdam Science Park is a leading cluster in four BSIK ICT proposals and internationally recognized for its major e-science, multimedia expertise and revolutionary new internet development known as 'GRID'. The national network center also hosts the AMS-IX - the world's largest internet exchange and is the prime point of presence for state-of-the-art, ultra-high bandwidth networks.

## Advancement

IPTP Networks implements, exclusively, state-of-the-art equipment provided by Cisco as the backbone of our data center network infrastructure. With our in-house, Cisco-certified engineering team we guarantee the highest level of uninterrupted, uncompromising performance of all your network resources.

## Cost-efficiency

The high level of performance is achieved by the use of a cooling system solution with a "free-cooling" feature. This allows us to minimize cooling expenses as well as contributing to a better overall efficiency of the data center given the climatic conditions in Amsterdam with the average annual high of 12.8 and low of 7.5 degrees centigrade.

## Flexibility

APC InfraStruxure is the pinnacle of highly scalable and adaptable data center IT room architecture. All components are pre-tested as part of a unified ultra-functional system. Our facilities are designed with corporate clients in mind, resulting in uncompromised

performance, ultimate flexibility and control over your business.

## Security

Our Matrix 4 facilities are enhanced with 24/7 monitoring and maintenance, secured by advanced access systems. Our professional multilevel electronic system of authorization features innovative technologies such as fingerprint, and facial recognition as well as other security solutions ensuring that your data is stored securely.

## APC InfraStruxure

Matrix 4 is based on the APC InfraStruxure – an innovative, industry leading solution for data center infrastructure with unrivalled scalability, reliability and quality as well as power supply allocation per rack that by far exceeds that of competing solutions.

## Power density

The Matrix 4 data center has a dedicated power substation with a 2MW capacity, connected to the power supply grid of Amsterdam Science Park ensuring fully redundant supply of electricity for the facility.

## 8 MAJOR DATA CENTERS ON-NET

Equinix AM1/2/3

NIKHEF (AMS-IX)

SARA(AMS-IX)

Telecity 1 Science Park

Matrix 3/4 Science Park

OWN AND PARTNER INFRASTRUCTURE  
CONNECTING MAJOR DATA-CENTERS  
IN THE AMSTERDAM  
SCIENCE PARK AREA



# A FORTRESS FOR YOUR MOST SENSITIVE DATA



The industry accepted indicator of data center efficiency is PUE (Power Usage Effectiveness). This indicator provides an excellent representation of the efficiency of each data-center's cooling solution as well as electrical systems and infrastructure. The approximate industry average is a

PUE of 2.5 with a widespread effort among providers to reduce this figure to 1.3. The Matrix 4 data center is designed with the latest in power efficient technologies to target PUE ratio of as low as 1.08 depending on load and various environmental conditions

## Advantages:

High density racks with up to 70+ kilowatt per rack

15 percent smaller footprint (48 units instead of standard 42)

Swift and effortless planning of operations

High scalability

Improved resiliency

Quick recovery from malfunction is achieved through interchangeable modules

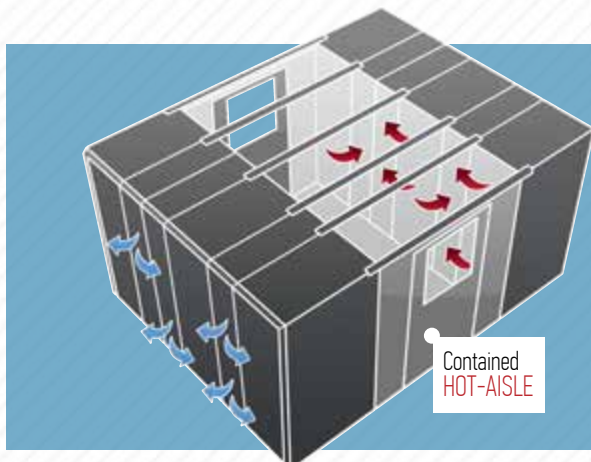
Simplicity of concept, design and installation

A+B UPS design

N+1 chiller plant

24/7 access to qualified technical support

Complete redundancy of all systems and 6,300 SQF data center targeting compliance with ISO 27001, PCI, ISO 9001, TIA-942, Tier 4+ industry standards



Hot-aisle containment system (HACS) deployed with row-oriented cooling

# Cutting-Edge portfolio of security solutions:

IPTP Security is based on the Cisco Self-Defending Network product line supplemented by our specialized in-house development. This system ensures protection of your infrastructure by assessing vulnerabilities, detecting attacks and responding to suspicious activities and events. IPTP Security Solutions have been designed specifically to take full advantage of the Cisco platform that in conjunction with our internal know-how is able to deliver a long-term development strategy allowing our clients to take full advantage of the intelligence in their network resources, significantly streamlining business processes and cutting costs.

## Managed IDS/IPS

With our Managed Intrusion Detection/ Intrusion Prevention service, you receive a proven deep-packet inspection-based technology, combined with end-to-end management, monitoring and maintenance. The service is deployed at strategic locations across your network in order to detect and react to misuse, attacks and security policy violations.

## Secure Router

Through the Managed Secure Router service, you receive a managed WAN router with integrated security, that provides protected connectivity, includes hardware-based encryption for VPN and supports many other security features.

## Secure Access

Managed RSA SecurID® solution features a wide range of user authentication options to help positively identify users before they interact with mission-critical data and applications. The system uses a self-generating security token in addition to conventional user password, making sure your sensitive information is secure at all times.

## Managed Firewall

With this service IPTP Networks provides you with Cisco's proven firewall technology solutions and combines them with end-to-end management, monitoring and maintenance to enhance the protection of your business infrastructure.



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