Technolution
Prime

PrimeDiode 3010

Secure
data traffic
for NLD SECRET

Redefining
solutions

Welcome to Technolution Prime. We are an independent Dutch technology company specialized in state-of-the-art, high-assurance solutions that have been designed, tried and tested according to our 'separation of concerns' philosophy. Our solutions are often based on programmable chips (FPGAs) that allow for rapid, flexible development. Our products protect you against the latest threats and do so at dizzyingly high speeds.

If our standard product range is not fully suited for your application, we are happy to develop a tailor-made solution for you. A solution that will be as prestigious and as reliable as the products from our own range.

Jan van der Wel
CEO Technolution B.V.

"Welcome at Technolution Prime"

Control your data flows

The **PrimeDiode 3010** gives you control

Do you want to be sure that your network
is protected against unwanted data or malware?
Are you looking for an effective solution against data leaks? The
PrimeDiode 3010 turns network connections into one-way traffic. Data traffic
in the other direction is fully blocked; traffic in the permitted direction remains
possible at speeds up to 10 Gbit/second. With its sharp pricing and
NLD SECRET (Stg. GEHEIM) classification level, the PrimeDiode 3010 is
the best way to establish control over your data flows.

What is NLD SECRET?
NLD SECRET is the Dutch government's second-highest information classification level. If NLD SECRET-classified documents and data were to fall into the wrong hands, the damage to national security would be significant. The digital security of this kind of information must therefore be carried out by devices that have been cleared by the National Communications Security Agency (NBV). Like the PrimeDiode 3010, which is now also available for commercial use.

When **confidentiality** and **integrity** are crucial

The PrimeDiode 3010 puts a physical barrier in place against unwanted data traffic. This makes this data diode one of the most powerful means of protecting the confidentiality and/or integrity of your network domain.

Integrity - nothing enters the system
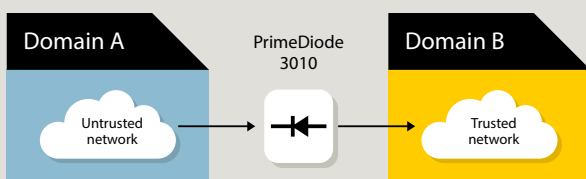
If the integrity of your network domain requires absolute protection against intruders, malware or cyberattacks, then the PrimeDiode 3010 offers the protection you need. Data can still be sent out of the domain, but your network is hermetically sealed off from external data.

Typical applications:
- network monitoring
- event monitoring & logging
- controlled releases
- data sharing

Confidentiality - nothing leaves the system
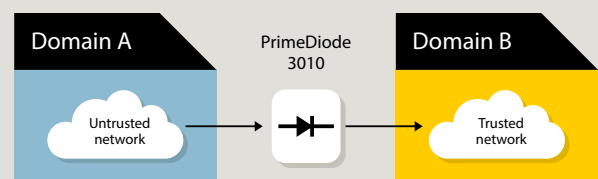
Is the confidentiality of your information crucial to you, and are you concerned about external leaks? Use the PrimeDiode 3010 to prevent data from ever leaving your network domain. In this configuration, it is still possible to receive data, with a bandwidth of up to 10 Gb/second.

Typical applications:
- data import
- videofeeds en sensordata
- internet en e-mail
- updates
- communicatietaps

Maximum-security monitoring and insight
No concessions

The PrimeDiode 3010 is built to be deployed rapidly and to guarantee maximum security. The design is simple and functional. The application possibilities are enormous.

Data traffic is physically blocked in one direction; traffic in the other direction flows unimpeded and the diode switches automatically between 1 Gbit/sec and 10 Gbit/sec. This makes the PrimeDiode 3010 the optimal solution for safely reading out and monitoring information in sensitive situations.

Secure monitoring
Benefit from secure remote monitoring of your systems. Use the PrimeDiode 3010 to access the monitoring data of your systems from a central control center. Your systems are protected against manipulation by the surrounding network.

Reading out CCTV signals
The connection between CCTV cameras and your network can pose security risks due to possible vulnerabilities in the camera equipment. Receive the video data via a PrimeDiode 3010 to protect your network against leaking of valuable information through video connections.

Integrity of operational technology
Monitor your OT environment's production data and service status in your IT environment by using a PrimeDiode 3010-protected connection. This gives you full insight, without the risk that the OT environment could be compromised from the IT environment.

Building block for a **watertight security infrastructure**

The PrimeDiode 3010 has been designed on the basis of our philosophy of the Separation of concerns, the principle of doing only one thing and doing it well.

This has resulted in an effective, reliable device that can be deployed widely and is particularly cost-effective. This makes the PrimeDiode 3010 an easy fit in your own security infrastructure.

Easy integration into your infrastructure
In addition to its clear, unambiguous functionality, the PrimeDiode 3010 is very easy to use. Its automatic band-width selection and redundant power supply enable rapid and smooth integration into even the most demanding ICT infrastructure.

Stay in charge of your applications
The PrimeDiode 3010's inbuilt echo function facilitates an automatic link-up with your ethernet network. In addition, you can determine how the data bloc-kade is organized for your applications using your own software.
The PrimeDiode 3010 can thus become a building block for a close-knit, safe security infrastructure that meets your requirements and wishes.

Specifications

PrimeDiode 3010

Security	
Employability Classification	Secret
Hardware Security	'Tamper evident' seal
Tempest	NATO SDIP-27/2 Level A
Functionality	
Doorvoer	Connection speed (1Gbps/10Gbps)
MTU-Size	Unlimited
Latency	<< 1 µs
Connections	
Types of connections	Optical 1G and 10G Ethernet
Ethernet standards	1000BASE-SX, 10GBASE-SR (10GBASE-LR/LRM/ER on request)
Speed detection	Automatic
Network connection	Duplex LC UPC + Simplex LC UPC
Hardware	
Rule Compliance	RoHS, CE
Power	~6W
Power input	90 – 264 V-AC, 0,1 A, 47-63 Hz
Backup power input	90 – 264 V-AC, 0,1 A, 47-63 Hz
Cooling	Passive
Weight	1.9 kg
Dimensions	Rackmount 19 inch (48,26 cm); 1U, depth 277 mm[1]
Environmental temperature	Operating: 0°C - 50°C environmental temperature at 20-85% relative humidity non-condensing Storage: -20°C - 85°C

Specifications may be subject to change. Please contact us to discuss your application.
[1]Two units per 1U faceplate on request.

Technolution

Founded 1987

Technology company

Multi-disciplinary – software, electronics and programmable logic

- Solutions that matter
- Reliable technology
- Thinking outside the box

250 Motivated employees

8,5 Employee satisfaction

8,0 Customer satisfaction

44 mln. Turnover

17^e In Dutch top 50 engineering companies

10-15% Of turnover spent on R&D

30^e In Dutch top 30 R&D

Locations

Technolution - **Gouda**

Technolution Deventer - **Deventer**

Phase to Phase - **Arnhem**

Technolution Nordics - **Göteborg (Zweden)**

TNL USA Inc. & TNL Nanotech Inc. - **Wilmington**

Subbrands

Technolution **Move**

Technolution **Perform**

Technolution **Prime**

Technolution **Spark**

Technolution **Advance**

Certifications

ISO 9001 Quality

**ISO 27001** Information security

ISO 14001 Environment

CO_2 Performance Ladder level 5

Technolution

As a distinctive Dutch technology company, we have been committed to making the world a better place through technology since 1987. Not just in the world of high-assurance, but also in the mobility, energy, industry, high-tech and big science sectors. We bring fresh perspective to any challenge and create intelligent, functional solutions for each of them. It is not for nothing that we have been listed in the Dutch Research & Development Top 30 for many years.
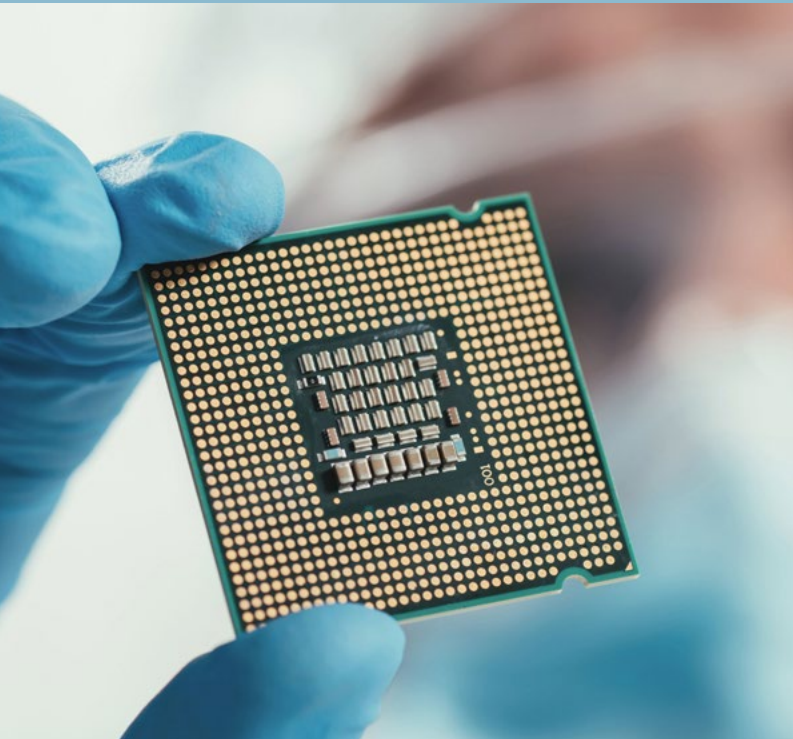
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