



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.

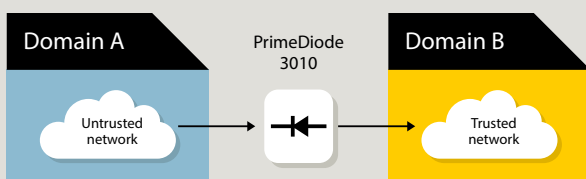
What is NLD SECRET?

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

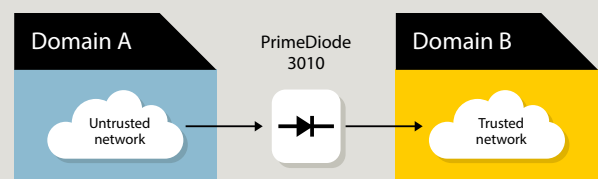


If the integrity of your network domain requires absolute protection against intruders, malware or cyberattacks, then the PrimeDiode 3010 offers the protection you need. Data can still be sent out of the domain, but your network is hermetically sealed off from external data.

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 bandwidth 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 blockade 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 μ s

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.

¹Two units per 1U faceplate on request.



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 - **Lyngby (Denemarken)**

Technolution UK - **Mansfield, Nottinghamshire (UK)**

Technolution Nordics - **Göteborg (Zweden)**

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

Submerken



Technolution
Move



Technolution
Perform



Technolution
Prime



Technolution
Spark



Technolution
Advance



Certifications

ISO 9001 Quality

ISO 27001 Information security

ISO 14001 Environment

CO₂ 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.



Redefining solutions



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