



Technologies

Description

Products and technologies of the very highest level

Hirschmann Provider Products was founded during the late sixties as a manufacturer of CATV products. As a result of the company's focus and strategy as well as the employees knowledge, there is always a natural behavior in establishing and enabling the next generation of products as well as the product portfolio growth in new and additional ranges and technologies. Today Hirschmann Provider Product offers a variety of products and product groups as a result of the evolution of cable TV networks from traditional coax to full IP fibre networks. This naturally evolved growth of the different kinds of technologies makes Hirschmann Provider Products a matured multi disciplined product manufacturer, with a full range of products meeting these different network migration stages from coax to its current fibre status.

Hirschmann Provider Products has different product groups related to the technologies:

- Traditional CATV amplifiers;
- Traditional HFC optical nodes;
- RFoG Multi diode receivers and ONUs;
- Digital Access node.

All applicable within:

- CATV networks;
- HFC network;
- FTTX networks;

- RFoG networks;
- Fiber to the last amplifier networks;
- Fiber to the curb networks;
- Deep fiber networks;
- FTTH networks;
- Full IP networks;
- Docsis 3.0 networks;
- Docsis 3.1 networks.



HFC technologies

Modular platforms like the 1218 MHz access platform also enable HFC networks to be adapted and configured to any scale, at any time, and in any phase of network development. This in turn allows providers to use the platform to construct new networks or to upgrade existing networks or convert them into nodes. It represents a solid future-proof technical and financial investment.

Product Portfolio

RFoG Networks

With RFoG products, Hirschmann Provider Products gives providers the opportunity to construct next generation Fibre-to-the-Home (FTTH) architecture. RFoG distributes the entire DOCSIS package without requiring modifications to in-home coax distribution networks and existing OSS and BSS systems. Hirschmann Provider Products has considerable experience with RFoG in small and large scale networks with Docsis 3.0 and Docsis 3.1 full load applications in a 5 – 204MHz Upstream range and a 85 – 1218 MHz downstream range.

Radio Frequency Over Glass (RFoG) OBI-free

Our RfoG products guarantee maximum performance at low and high frequencies, with seamless migration from 862 to 1218 MHz and automatic return-path switching from 65 (85) to 204 MHz. RFoG from Hirschmann is a cost-effective solution and helps to bridge the gap between these products and the next phase in FTTH networks.

Product Portfolio





Optical FTTX networks video overlay

Use of Hirschmann optical nodes, EDFAs and transmitter as well as the required passive products ensures maximum flexibility and efficient use of fibre-optic cables. The core Hirschmann competences are met in every possible way considering performance and efficiency. This creates unique features in a general available product technology and once again adds value in a product.

Product Portfolio

Digital access nodes

Digital Access Docsis 3.0 and Docsis 3.1 RPD and RMD networks

As a natural step in bringing high bandwidth closer to the customer all kinds of deep fibre solutions are applicable. Beside bringing the 'analogue' HFC node deep in the network with our 1218 series node. It is more than logical to bring 'DOCSIS' closer to the edge of the network. Depending on the desired performance and feature set we offer both RMD (Remote MAC/PHY Device) and RPD (Remote PHY Device) in our digital node DN1218 series. As part of a 3rd party Ecosystem both product ranges are applicable and compatible with the concerned standards.

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Product Portfolio





Passive components

Active components seem to have a more 'general' specification and application compared to the passive product. Hirschmann offers a variety of products in both 'copper' coax technologies as well as fibre technologies. Regional preferences and regulations demand specific and detailed specifications creating unique products mend for the specific region. However with small changes the same products can be used in different areas as well, Hirschmann Provider Products combines all allowed and commercial attractive features with one product to be compatible with several markets and applications

In the Home Networks

Seen from an operator perspective Hirschmann Provider Products creates products supplied through and via the operator to the home owners and its clients. In most cases the specifications and performance are part of the operator philosophy and therefore regulated or 'strongly preferred' by the operator. With the home domain there are basically three technologies considering the transport of the services: traditional coax, structured twisted pair cabling and wireless. Hirschmann offers products meeting one or combined infrastructure in most cases with the ability to be monitored and managed by the operator to guarantee services are being delivered to the device.

Product Portfolio

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