

FUEL YOUR NETWORK



THE COMPANY



DTK Electronics (www.dtk-electronics.com) specializes in design, production, and services of equipment and components for Telecommunications networks - individual **HFC, PON, RFoG, DOCSIS 3.0 and DOCSIS 3.1 solutions.**

We develop and produce specialized network measurement systems and measurement equipment for maintenance and parameter checking of cable TV networks according to user's specifications. The company was established in 1996 in Sofia, Bulgaria and its products are preferred by many well-established CATV Operators.



Over the years, customers that had already tested our products started asking if it is possible for every device in their network to be manufactured by us. So we made it possible! And that's how the production of our customer tailored products started. In a short period of time, we go from the drawing board and planning stage to the production of the device.

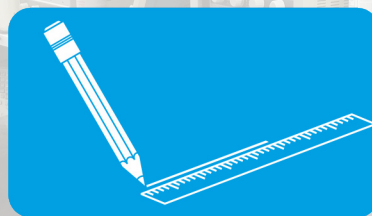
No matter how tailored, there are some things we won't budge on and that you will find present in all our products - quality, durability, effectiveness and competitively priced!



We value your time and understand how important it is to act fast.

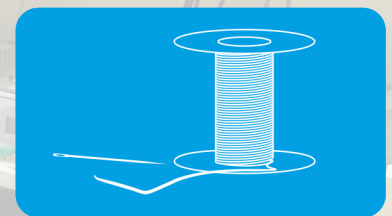
So we offer:

- Repair services
- Substitute units
- Online consultations with our top engineers
- Support for establishing or modifying your network



You have an idea for a specific device ?

- We can build it from scratch, using modern technologies and quality components.



Customer Tailored Products

- You like a device of ours but want to adapt it to meet specific needs ? We can do it.
- Or you want something you don't need taken out of it, so that the price is lowered? We can do it.

OPTICAL NODES



FUTURE TECHNOLOGY, ON STOCK TODAY!

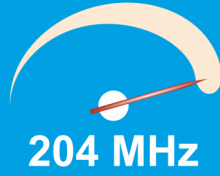
Durable and efficient, our Optical Nodes are ready to serve in your network. Whether you need a small node for individual customers or you need something to power a small, medium and large offices, we have you covered.

Most importantly, our nodes can be easily customized to your liking.

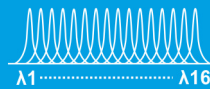
DOWN STREAM



UP STREAM

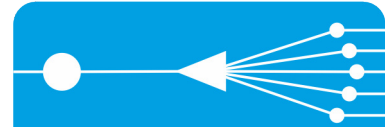


FEATURE



No OBI effect

COMPATIBILITY



EPON & GPON

DOWN STREAM

Frequency Range: 85/110/258 ÷ 1218 MHz
Flatness: ± 1.5 dB
Intermodulation distortions @ output level
108dB μ V : CSO ≤ -60 dBc
CTB ≤ -60 dBc

UP STREAM

Frequency Range: 5 ÷ 65/85/204 MHz
Flatness: ± 1.5 dB
Input RF level: 70 ÷ 98dB μ V

DOWN STREAM

Wavelength: 1545 ÷ 1550nm
Equivalent input noise: ≤ 4 pA / $\sqrt{\text{Hz}}$
Photo diode sensitivity: > 0.8 A/W

UP STREAM

Wavelength: 1610 \pm 7.5nm
Laser type: DFB
Laser rise/fall time: < 1.5 μ s

Our state of the art **RFoG node** is your future technology ON STOCK today.

Our device will suit every network, no matter the size. Due to its characteristics it is capable of feeding many more subscribers, which means you'll have less total devices in your network, which leads towards less maintenance & labour costs, which is beneficial to every business! On the other hand, it can be used to cost-efficiently expand the capacity of your network, without worrying about the number of subscribers to come. **Full DOCSIS 3.1 compliance.**

Still uncertain about the benefits this would bring to your network ?
Find out more by getting in touch with us.

OPTICAL NODES

MAINSTREAM SERIES

Whether you need replacements or want to move your network forward, based on consumer reports and statistics, we recommend our DOCSIS 3.0 nodes. 1.0GHz Down stream & 85MHz Up stream, will fit almost anywhere.

Key features are durability and customizable design.



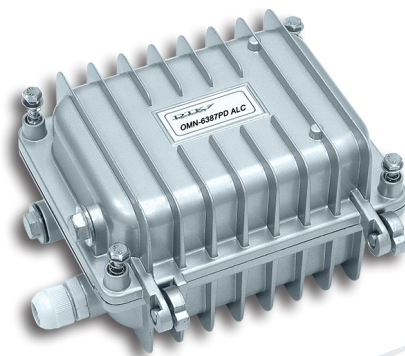
Moving Forward with OCN 54100

OCN 54100 is a simple "bulletproof" node. Over the years, we have refined it to perfection. High life span expectancy, efficient, price competitive and durable.



Keeping it simple with the OMN product line

Our OMN series nodes are available with many options and will fully match what you expect from a cost efficient optical node.



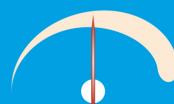
1.0 GHz



85 MHz

Full DOCSIS 3.0 compliance

- Wide range of input optical power
- Interstage Equalizer, Attenuator and ICS
- Automatic Level Control (ALC)
- Built-in power inserter
- LVP (Low Voltage Protection)
- Two current outputs



862 MHz



85 MHz

POWER DOUBLING TECHNOLOGY

- Compact Size & Durable
- Interstage Equalizer, Attenuator and ICS
- Automatic Level Control (ALC)
- Power Doubler or Push Pull technology
- High output level
- Power-up delayed start technology

OPTICAL NODES

HOME SERIES

Durable and efficient, our home series optical nodes are compact and have enough juice to do their job.

Several options are available for customization so it can accommodate all your needs.

Home & Office

OFN-4307SC is a simple compact node with many capabilities, such as subscriber control. In order to fit better into your network design several customizations are available.



862 MHz



65 MHz

SUBSCRIBER CONTROL

- Control the services provided to your customers
- Automatic Level Control (ALC)
- EXTREMELY low power consumption
- Wide range of supply voltage
- Distribute to up to 4 subscribers

Genuine Solutions

Several different devices are developed with the intention of serving in the network without any maintenance through their lifetime.



862 MHz



EPON & GPON

WITH/WITHOUT ACTIVE REVERSE PATH

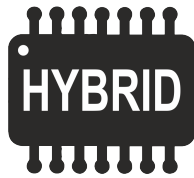
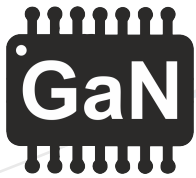
- Compact Size & Durable
- PON Compatibility on some models
- Remote control
- EXTREMELY low power consumption
- Sufficient output signal for the end user's equipment in every model.

RF AMPLIFIERS



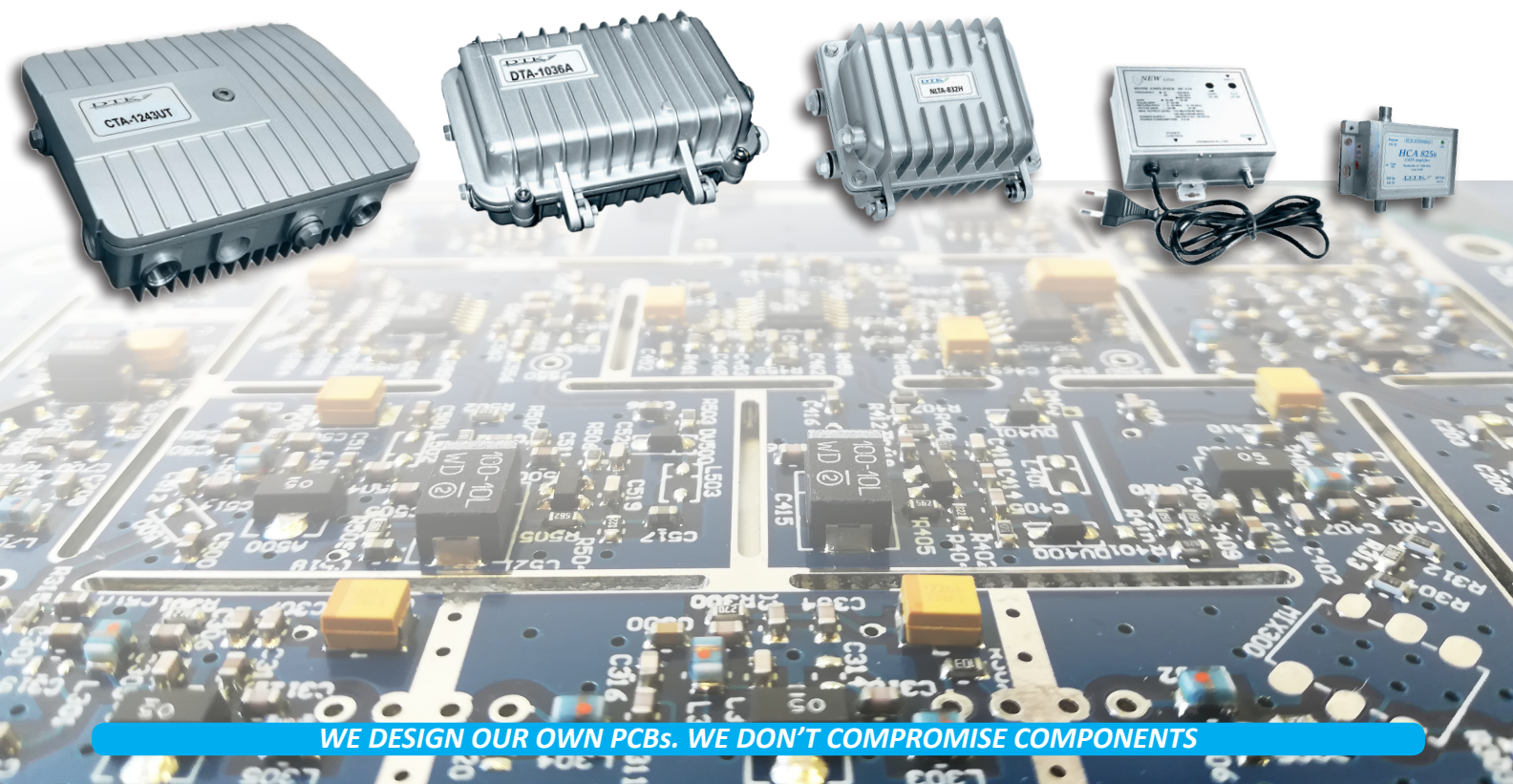
RF AMPLIFIERS

Durable and efficient, our RF AMPLIFIERS come ready to serve in your network. The most popular segments (1.2GHz, 1.0GHz and 862MHz) are well covered by many options.



- Compact Size
- Proven durability and design
- Power efficient
- High output levels
- 40000+ hours typical life span

- Interstage Equalizer, Attenuator and ICS
- 1.2GHz, 1.0GHz and 862MHz solutions
- Home & office solutions
- Neighbourhood solutions
- Line extenders
- Trunk Lines



WE DESIGN OUR OWN PCBs. WE DON'T COMPROMISE COMPONENTS

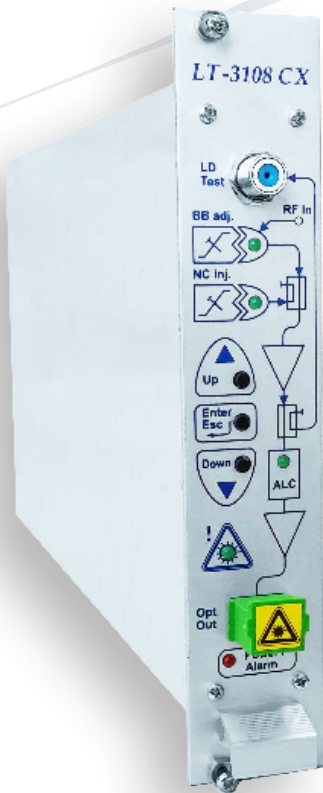
RF AMPLIFIERS

HEADEND EQUIPMENT

One of the most important segments of the whole CATV network are the HEADEND Equipment. Luckily, we offer Optical Transmitters & Receivers, RF Amplifiers, Spectrum Analyzers and more. They all come with our famous durability and high life time expectancy.



Optical Transmitter LT-3108 CX



Features:

- Microprocessor control
- Automatic Level Control (ALC)
- Optical output - 8mW
- Electronic Attenuators
- Ability to insert and adjust high level signals
- Protection against:
 - High Laser current bias
 - Overheating
- RF test port for measuring input signal and setting the module



Modular Amplifier HA-1000



Features:

- Microprocessor control
- GaAsFET Power Doubler
- Electronic cable corrector and interstage attenuator
- Changeable filter plug-in
- Input signal test port
- Protection against:
 - High Input Level
 - Overtemperature
- Configurable output ports

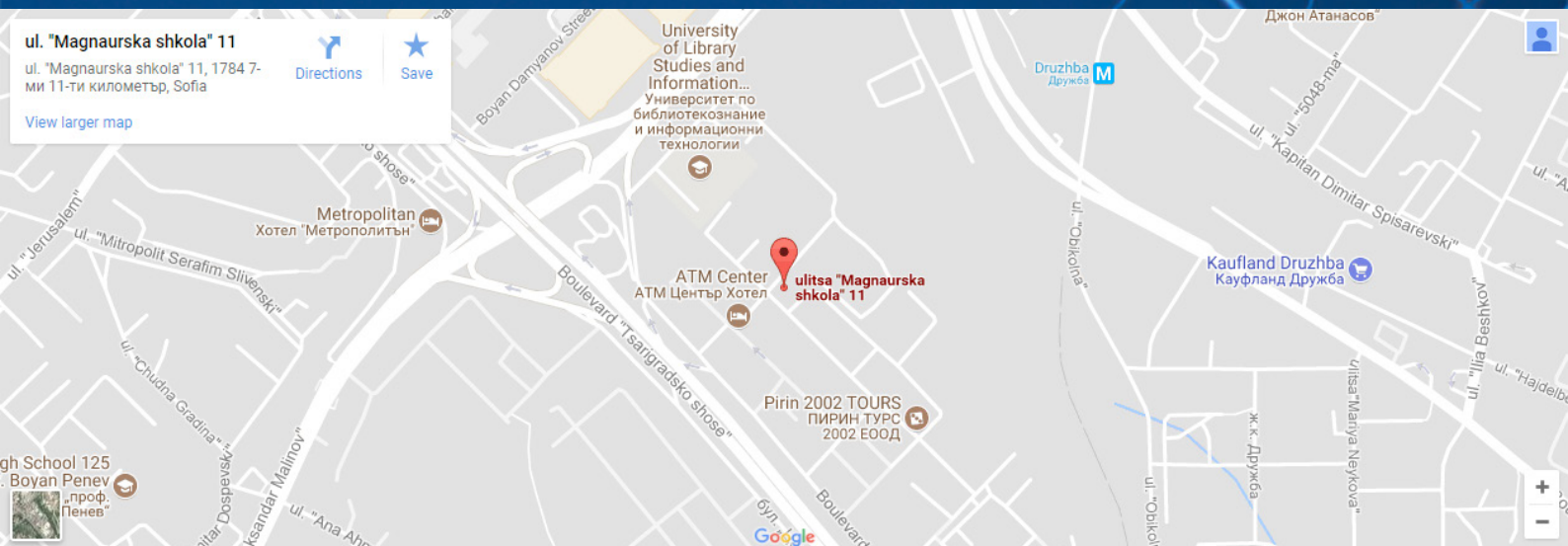


ACCESSORIES



FIND OUT MORE ON OUR WEBSITE OR BY E-MAILING US AT: office@dtk-electronics.com

YOU WANT IT, WE HAVE IT



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