

Innovative headend technology under new flag

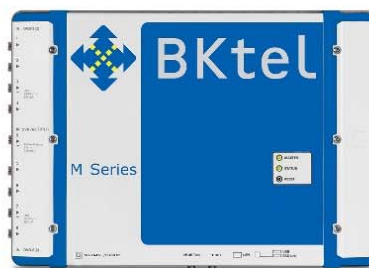
Just over a year after taking over Kathrein's Gigabit Networks business and including CATV headend products in BKtel's extensive portfolio, the new NEO product line now offers a full line of headend products. These are based on Kathrein's established UFO series. BKtel, together with Kathrein, will drive global marketing as a distribution partner and further develop it conceptually. Kathrein will continue to market the entire UFO headend portfolio in the DACH region.

Divided into three series (X-series, M-series and N-series), the new NEO product lines each include sealed system solutions for various applications. These will be presented at this year's ANGACOM in Cologne at the booth of BKtel (Hall 8, P30).

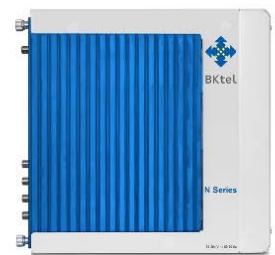
Modular, Compact, Focused - Always the right system for your application



NEO X-Serie



NEO M-Serie



NEO N-Serie

The largest range of functions is offered by the NEO-X series, which was designed for use in medium-sized and large community systems and cable networks. In the X10 carrier system, ten modules can be put together individually. The wide range of high-tech devices offers a high power density for digital signal transmission. Classic distribution channels such as satellite, cable and terrestrial are supported as well as the forward-looking technology with IP streamers and edge modulators. Powerful system functions such as the decryption and encryption of protected content, DVB multiplex functions and the new DVB encoder complete the X series.

There are no limits to the functionality of the X series. Several X10 module carriers can be connected to one system. Power supply redundancy, SNMP capabilities, and ease of service are other features of the X Series.

The system is administrated by the Headend Management Tool (HMT), which ensures the best usability through the intuitively structured user guidance. Even well-equipped and cascaded NEO X systems can be easily managed. The communication between HMT and X-Series is encrypted via IP network (local or remote) and is protected by the state of the art.

Theme: Innovative technology of headends under new flag

The M-Series of the NEO product line impresses with its compactness, but benefits technically by the development of the X-Series. This series specializes in the classic transmodulation of satellite, cable and terrestrial signals to DVB-C or DVB-T. As a new development, an extremely powerful, compact transmodulator with CI function will be presented at ANGACOM. Two DVB-S (2) full-band capturing receiver units each with four SAT-IF inputs with active LNB supply, supplemented by multi-DVB reception with power supply for active antennas, form the innovative input section. Six CI slots are additionally available for flexible decryption of protected programs. For FTA applications, a device variant is available which dispenses with CI functions. Eighteen DVB-C channels are available at the output of both devices. Up to four M Series devices can be connected to a system via a USB link. Just like the X series, the M series can be administered with the HMT software as a single device or cascaded via an IP network.

BKtel offers the NEO-N series for use in small community facilities such as multi-family houses, pensions, retirement homes, which was specially designed for this application area and offers an attractive price / performance ratio. Highest output signal quality on 8 transmodulators (DVB-S2 to DVB-C), a 4-SAT-level multi-switch and a USB interface for direct monitoring, enclosed in a modern, compact housing, ensure flexible operation.

Another advantage of the M series and N series is the low power requirement. Both are cooled purely passively, making them completely silent and maintenance-free.

All NEO products use modern, fully digital signal processing. The heart of each device is a scalable FPGA platform combined with powerful micro-controllers. The system-wide use of FPGA ensures the future viability of all modules and provides an uncomplicated installation of software updates throughout the entire deployment.

>> At a glance

At a glance

| Feature | X-Serie | M-Serie | N-Serie |
|-----------------------------------|----------------|----------------|----------------|
| Modular / Teilmodular | ✓ | ✓ | |
| DVB-S(2) → DVB-C TRANS-modulation | ✓ | ✓ | ✓ |
| DVB-S(2)-T(2)-C → DVB-C/t | ✓ | ✓ | |
| TRANS-modulation | | ✓ | ✓ |
| LNB power supply /. | ✓ | ✓ | |
| active antenna | ✓ | ✓ | |
| CI function | ✓ | | |
| TS-routing | ✓ | | |
| TS-multiplex | ✓ | | |
| IP streaming (RTP / UDP) | ✓ | | |
| EDGE modulation DVB-C/t | ✓ | ✓ | |
| HDMI encoding | | ✓ | ✓ |
| RF amplifier / pre-emphasis /. | ✓ | ✓ | |
| 75Ω test socket | ✓ | ✓ | |
| Fanless / silent | ✓ | | |
| Cascadable system | | ✓ | ✓ |