Newtec

1IF, 4IF AND XIF
NEWTEC DIALOG® HUBS

Newtec Dialog® Platform

Newtec Dialog® is a **scalable and flexible multiservice satellite platform** which allows operators to build and adapt their infrastructure easily as their business and the satellite market grows. Newtec Dialog will secure the future of operators, giving them the power to offer a variety of fixed and mobile services while making hassle-free decisions on which technology to use.

Flexibility

Newtec Dialog is built for flexibility. Whether the satellite service provider sells a single service or multiple services into different markets, Newtec Dialog hubs allow customers to **choose optimal technology without compromise.** Using the advanced Quality of Service management, service providers can implement tailor-made services for many markets which, when combined with the most optimal transmission technology running on MDM2000, MDM3000 and MDM5000 series modems, will result in a **very bandwidth-efficient yet cost-effective solution.** End users can now be served with optimal Service Level Agreements (SLA) for the right price.

Scalability

The Newtec Dialog platform can be configured to match the size and satellite network configuration for any customer application; a vast choice is available in terms of satellite bands, transmission speed, power, modulation and amount of forward and return links. The hub scales smoothly and cost effectively from small (few terminals) to large networks (hundreds of thousands of terminals) and from single coverage area to multiple coverage areas on any frequency band. It can serve one or multiple satellites, including high-throughput spot beam configurations. The hubs can be deployed remotely in different teleports while being managed centrally via a single Newtec Dialog Network Management System. Three types of hubs are available. The 1IF Hub for small scale, dedicated networks, the 4IF Hub for small gateway deployments and the XIF Hub for large gateway deployments.

Newtec Dialog hubs provide a **high degree of modularity.** Service providers can start with a small Newtec Dialog platform configuration to address the customers' initial needs. As the business evolves and grows, the platform can be easily extended by adding licenses, and modulator and multicarrier demodulator units. The hub modularity facilitates a **unique pay-as-you-grow investment, unmatched ease of installation and instant service deployment.**

Efficiency

Newtec Dialog enables the most optimal modulation and bandwidth allocation for any given service offering. The Newtec Dialog platform supports DVB-S2 and DVB-S2X ACM transmission from hub to terminals.

As well as SCPC and MF-TDMA return links to the hub, the platform includes a third revolutionary and patented return link technology, called Mx-DMA®. Mx-DMA is a fit for applications running throughput rates from 32 kbps up to 72 Mbps with a low to medium overbooking. Mx-DMA typically results in about 50% satellite bandwidth savings or double the number of customers per MHz.

Newtec Dialog hubs provide you with a flexible, modular and reliable platform. As a service provider or operator you can build your business to the size you need it. As a result of the low upfront CAPEX, you invest as your business grows.

Carrier Grade Reliability

Newtec Dialog hub modules' built-in redundancy enables carrier grade services. The hub modules can be optionally equipped in full redundant configuration, assuring availability of 99.99%.

Advanced Network Management System

Whatever the network size, the Newtec Dialog platform comes with an advanced Network Management System (NMS). Configurations, monitoring and diagnostics are easy-to-use and workflow based. The NMS includes extensive Virtual Network Operator (VNO) capabilities, allowing VNOs to independently operate and manage their terminal population and network resources.

The NMS comes standard with an extensive Application Programmatic Interface (API). Based on the API, network operators and/or VNOs can easily integrate the Newtec Dialog platform into their respective OSS/BSS systems.