Newtec

NEWTEC DIALOG® PLATFORM
RELEASE 1.3 MOBILITY MEETS EFFICIENCY

Description

The Newtec Dialog platform is a scalable and flexible multiservice satellite communications platform that allows satellite service providers to build and adapt their network easily as their business grows. Newtec Dialog will secure the future of operators, giving them the power to offer a variety of mobile and fixed services while making hassle-free decisions on the technology to use. The Newtec Dialog platform provides the scalability, flexibility and efficiency required to run successful operations over satellite.

Flexibility

Newtec Dialog is built for flexibility. Whether the satellite service provider addresses a single application or multiple markets, Newtec Dialog offers customers **optimal technology without compromising.** This produces a multitude of possibilities for optimizing the usage of infrastructure and **satellite capacity for different markets.** Newtec Dialog easily adapts to any business needs and goes hand in hand with delivering **tailored services**. End users can now be served with the optimal Service Level Agreement (SLA) for the right price. The platform supports multiple netwok types using Layer 2 and Layer 3. Service providers can use Layer 2 to offer new types of services enjoying higher throughput and easier end-customer network integration (like MPLS compatible services).

Scalability

The platform scales to **every type of satellite network:** From small networks, with five remotes, up to the largest networks, having hundreds of thousands of remotes, from single coverage to multi-spot High Throughput Satellite networks. Additionally, satellite service providers can invest as the business grows. The Newtec Dialog hub module equipment and the platform software licenses enable low up-front CAPEX.

Newtec Dialog is the flexible, scalable and efficient satcom platform for successful business models

Efficiency

Efficiency is defined both at operational and technology level in the Newtec Dialog platform. Satellite service providers can select the best transmission technology for their particular application. High Throughput Satellite advantages can be maximized using the DVB-S2X standard in the forward for high rate applications using the MDM5000 modem.

In the return satellite link the service provider has the option of using one or more technologies: SCPC, MF-TDMA and the best of two worlds, Newtec's patented Mx-DMA™. The efficiency of the satellite links is combined with Newtec core technologies such as FlexACM®, Bandwidth Management and Cross-Layer-Optimization. The service provider can now easily optimize modulation and bandwidth allocation, while **guaranteeing the highest efficiency and availability.**

Key Features

- Supports multiple satellites, multiple frequency bands, regular and spot beam satellites
- Scalable from five to +100.000s of terminals
- Highly efficient DVB-S2X and DVB-S2 ACM in the forward link
- Choice between SCPC, MF-TDMA and patented Newtec Mx-DMA as return link technology
- Hierarchical QoS management with seven classes
- Advanced Network Management System capabilities, both GUI and API, including VNO support
- SatLink Manager for satellite resource allocation, reservation and automated link setup or teardown
- Powerful APIs (Application Programming Interfaces) enabling automatic beam switching with customizable logic
- Automated terminal installation certification

Advantages

- Supporting wide range of applications and services on a single platform
- 15% efficiency improvement with Newtec's Clean Channel Technology
- 50% bandwidth saving with Newtec Mx-DMA return link technology
- OSS/BSS integration using extensive open API
- Easy to use and fast network rollout
- Modem portfolio, supporting different return links
- Pay as you grow modularity
- Maximum availability and link robustness
- Future proof

Newtec Dialog Hub Modules

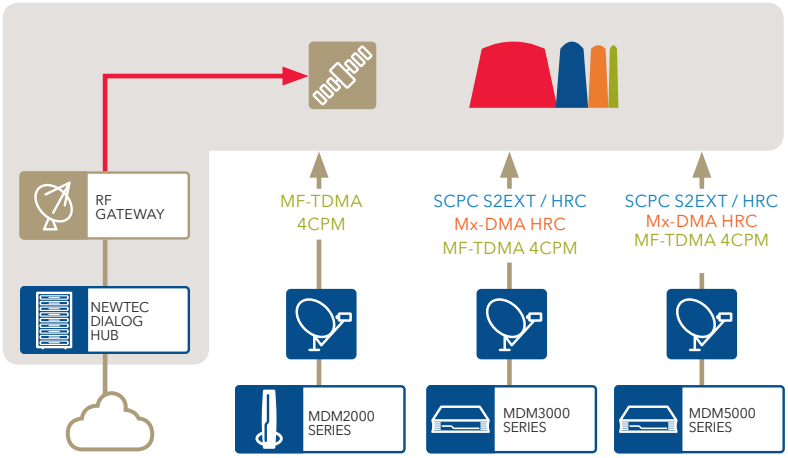
The Newtec Dialog hub provides you with a flexible, modular and reliable platform. The hub comes in two flavors depending on the application and business model.

HUB6504 4IF HUB MODULE

- Universal and highly scalable
- Up to four satellite networks
- Supports up to 60.000 terminals
- Up to 800 Mbps throughput

HUB6501 1IF HUB MODULE

- Small scale dedicated networks
- One satellite network
- Supports up to 250 terminals
- Up to 150 Mbps throughput



Newtec Satellite Modems

Three different modem types with different characteristics can be combined on a single Newtec Dialog platform. Depending on the application or throughput, different return technologies or modem types may apply.

MDM2200/MDM2500 IP SATELLITE MODEM

- 22 Mbps receive and 5 Mbps transmit unicast traffic
- Adaptive Return Link MF-TDMA - 4CPM
- Embedded TCP acceleration and encryption

MDM3100/MDM3300 IP SATELLITE MODEM

- 45 Mbps receive and 20 Mbps transmit unicast traffic
- Up to 80 Mbps receive and 21 Mbps transmit multicast traffic
- Embedded TCP acceleration and encryption
- MF-TDMA, SCPC & Mx-DMA HighResCoding (HRC™)
- SPSC S2 Extensions (MDM3300 only)

MDM5000 SATELLITE MODEM

- 200 Mbps receive and 75 Mbps transmit unicast traffic
- Up to 200 Mbps receive and 170 Mbps transmit multicast traffic
- Embedded TCP acceleration and encryption
- MF-TDMA, SCPC & Mx-DMA HRC
- and additional SCPC S2 extensions return

Innovative Technologies

- DVB-S2 with Clean Channel Technology and DVB-S2X
- Mx-DMA, MF-TDMA and SCPC
- S2 Extensions, HighResCoding and 4CPM
- FlexACM
- Cross-Layer-Optimization
- Equalink®
- Point&Play®

Applications
Newtec Dialog

Offshore, Oil & Gas
Mining
Maritime
Aviation

FNG/SNG
Contribution
Distribution
Direct-to-Home

Cellular Backhaul
Backhaul
Trunking
Fiber Restoration

Consumer/SOHO
SCADA
Energy
Enterprise/SME

Government Networks
ISR & Border Security
Disaster Recovery
MWR

This brochure is provided for information purposes only. The details contained in this document, including product and feature specifications, are subject to change without notice and shall not bind Newtec in any way.

Request A Quote