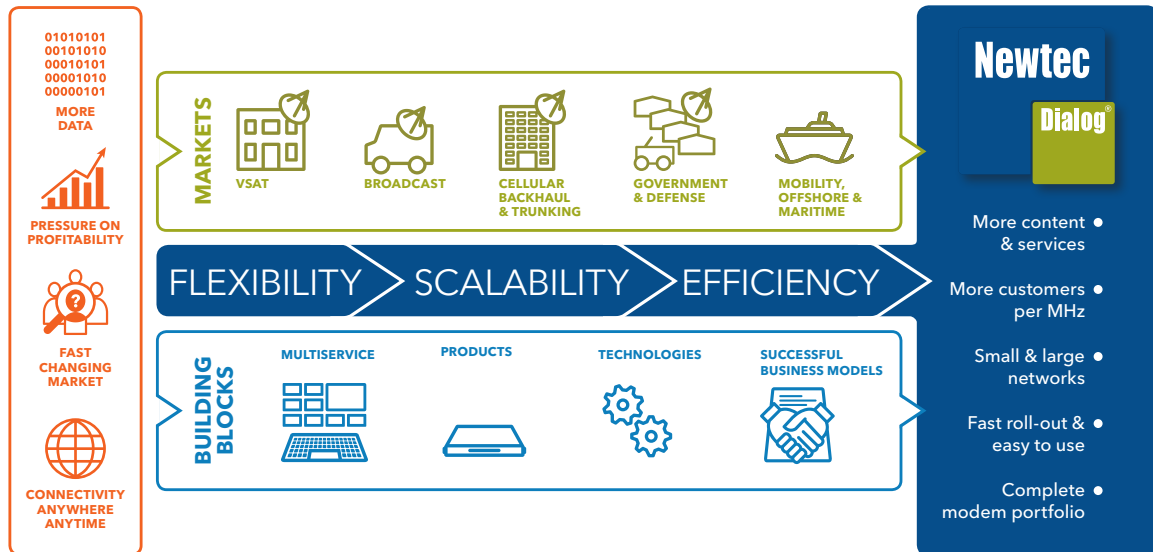


INDUSTRY CHALLENGES

YOUR PLATFORM ADVANTAGES



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 secures 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.

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 multispot

High Throughput Satellite (HTS) 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.

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. HTS advantages can be maximized using the DVB-S2X standard in the forward for all applications using the complete modem portfolio.

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**.

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

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 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
- A new era of bandwidth savings with DVB-S2X forward
- 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

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



HUB6501 1IF HUB

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



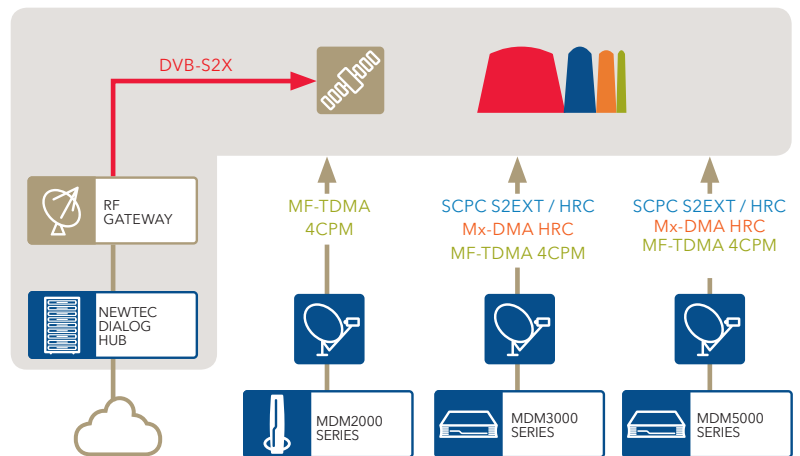
HUB6504 4IF HUB

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



HUB7208/7303 XIF HUB

- Highly flexible and scalable hub architecture
- Optimized baseband density & flexibility with baseband matrix
- Up to 500 Mbaud forward carriers



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.



MDM2210 IP SATELLITE MODEM

- 100 Mbps receive and 5 Mbps transmit unicast traffic
- DVB-S2X 500 Mbaud receive
- Adaptive Return Link MF-TDMA - 4CPM
- Embedded TCP acceleration and encryption



MDM3310 IP SATELLITE MODEM

- 150 Mbps receive and 60 Mbps transmit unicast traffic
- Up to 250 Mbps receive and 60 Mbps transmit multicast traffic
- DVB-S2X 500 Mbaud receive
- Embedded TCP acceleration and encryption
- MF-TDMA, SCPC & Mx-DMA HighResCoding (HRC™)



MDM5010 SATELLITE MODEM

- 400 Mbps receive and 250 Mbps transmit unicast traffic
- Up to 400 Mbps receive and 300 Mbps transmit multicast traffic
- DVB-S2X 500 Mbaud receive up to 256APSK
- Embedded TCP acceleration and encryption
- MF-TDMA, SCPC & Mx-DMA HRC

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
IoT-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.

Newtec

SHAPING THE FUTURE OF SATELLITE COMMUNICATIONS

Europe

Tel: +32 3 780 65 00
Fax: +32 3 780 65 49

North America

Tel: +1 203 323-0042
Fax: +1 203 323-8406

South America

Tel: +55 11 2092 6220
Fax: +55 11 2093 3756

Asia-Pacific

Tel: +65 6777 22 08
Fax: +65 6777 08 87

China

Tel: +86 10-823 18 730
Fax: +86 10-823 18 731

MENA

Tel: +971 4 443 60 58
Fax: +971 4 368 67 68