



HUB7208/7318 XIF HUB

Highly Flexible and Scalable

The Dialog XIF Hub is the solution for gateway deployments, serving a multitude of beams, transponders or satellites. The use of a baseband matrix brings N:M redundancy for up to 32 multicarrier modulators and/or demodulators in one rack. In addition, the matrix fan in/out capabilities allow for simple interfacing with the gateway RF infrastructure. Capacity can be extended easily and rapidly, simply by adding additional multicarrier modulators, demodulators and blade servers and activation in the Dialog NMS. High capacity multicarrier modulator units support DVB-S2X carriers, whereas the high capacity multicarrier demodulator units can support SCPC, MF-TDMA and our patented Mx-DMA return link technology. The use of Private Cloud technology enables flexible VNF deployment based on scalable compute and storage resources.

High Throughput

The Dialog XIF Hub is designed for operators seeking high throughput through its 10 Gbps Ethernet switching infrastructure. With support for Forward DVB-S2X carriers up to 500 Msp/s, they can leverage the high bandwidth transponders provided by High Throughput Satellites (HTS).

Forward Channel

Standard	DVB-S2/DVB-S2X ACM
Modulation	QPSK to 256APSK
Carrier bandwidth	Max. 500 Msp/s, 525 MHz
Roll-off	5, 10, 15, 20, 25 and 35%
Data throughput	2 Gbps
Pre-distortion	Equalizer

Return Channel

MX-DMA MRC (Multi-Resolution Coding)

Modulation VLSNR, QPSK, 8PSK, 16APSK, 64APSK

Carrier bandwidth up to 25 Msp/s

MX-DMA HRC (High Resolution Coding)

Modulation VLSNR, QPSK, 8PSK, 16APSK, 32APSK

Carrier bandwidth up to 20 Msp/s

MF-TDMA 4CPM

Modulation 4CPM

Carrier bandwidth 0.128 to 4 MHz

SCPC / DVB-S2 and S2 Extensions

Modulation QPSK, 8PSK, 16APSK, 32APSK

Carrier bandwidth max. 133 Msp/s

Hub Architecture

Modulator/Demodulator units:	Up to 32 slots
Modem Hardware	MCM7500 Multicarrier Modulator, MCD7000 Multicarrier Demodulator, MCD7500 Multicarrier Demodulator
Modem Redundancy	N:M redundancy
Fan-in/out baseband matrix	
Private Cloud Infrastructure	
Scalable Compute Nodes	
Scalable Storage Nodes	

Hub Interfaces

Ethernet User data	10 GbE
Ethernet Management data	1 GbE
RF output per satellite network	L-band (950 - 2150 MHz)
RF input per satellite network	L-band (950 - 2150 MHz)
Reference input	IEEE1588v2 or 10 MHz

Mechanical & Environment

Operating temperature	10° to 35°C / 50° to 95°F
Humidity	10 to 85% relative, non-condensing.
Storage temperature	-30° to 60°C / -22° to 140°F
Humidity	10 to 85% relative, non-condensing
Storage temperature	30° to 60°C / -22° to 140°F

Mains Power Supply

Power Supply	208-240VAC, 50/60 Hz
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Main Features

- Highly flexible and scalable hub architecture
- Optimized baseband density & flexibility with baseband matrix
- Up to 500 Msp/s forward carriers
- Carrier grade reliability with built-in redundancy
- Support for SCPC, MF-TDMA, and Mx-DMA return links
- Pay-as-you-grow

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