

DBx3000 series...



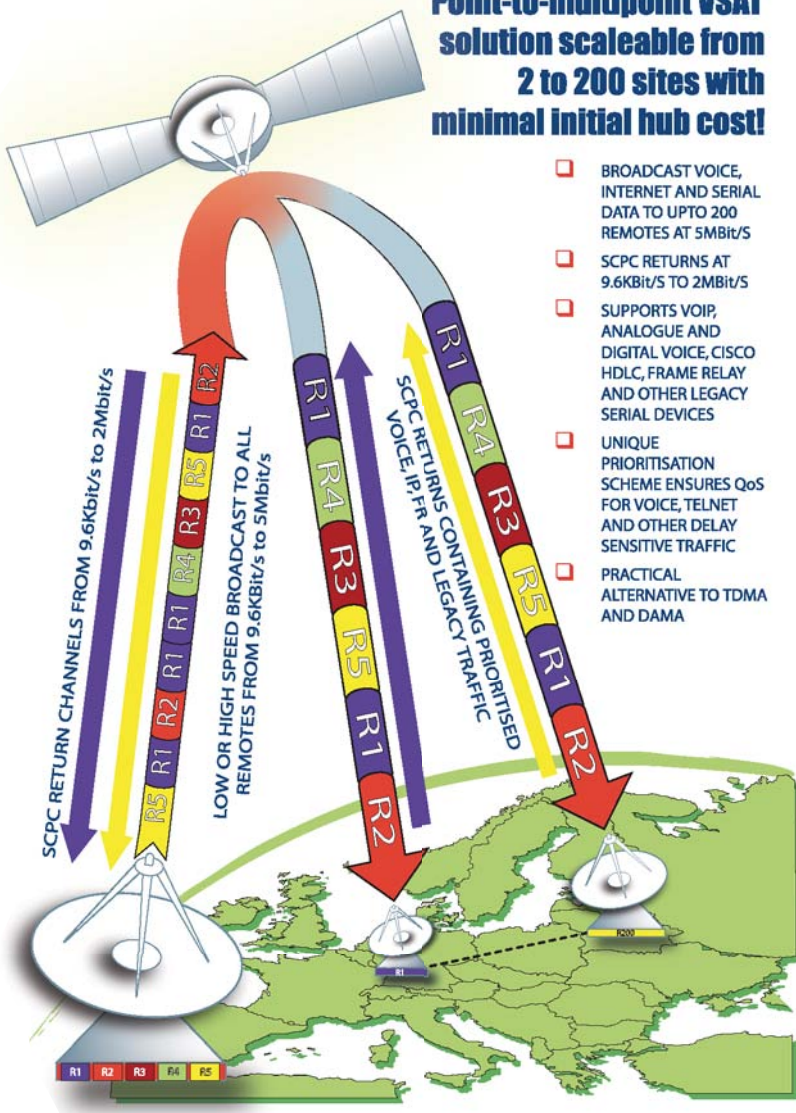
**...the all new multi-channel
demodulator solution for
affordable satellite networks**

Introducing the world-class DBx 3000 series of multi-channel satellite demodulators

- ❑ Three market specific versions – **DBH**, **DBM** and **DBR**
- ❑ **DBH** - High density 16 channel version for DVB/SCPC returns
- ❑ **DBM** - Integral modulator version for private star and mesh networks
- ❑ **DBR** - Fully redundant quad/octal version for mission critical applications
- ❑ Radyne, Comtech, ONE-SAT, Datum and Advantech modem compatibility
- ❑ 8PSK and 16QAM optional. BPSK, QPSK, Viterbi and Turbo standard.



Point-to-multipoint VSAT solution scalable from 2 to 200 sites with minimal initial hub cost!



The DBH 3000 packs up to a staggering 16 2Mbit/s SCPC channels - into a single 1U 19" enclosure.

For applications such as landing SCPC return channels from DVB uplinks or SCPC point-to-multipoint networks it is truly unbeatable on packing density and price per channel. Removing the need to stack expensive external modems at the hub location.

For example, a single equipment rack can comfortably house all the demodulators for 500 simultaneous remote sites. But in order to keep your initial outlay to a minimum we have designed the **DBH 3000** as a 4 channel unit that, in the same 1U chassis, may be licence-key upgraded to 8 channels, and beyond to 12 and 16 channels with the addition of a second demodulator module.

Viterbi and Turbo forward error correction are standard features in all DBx 3000 series demodulator banks along with BPSK and QPSK modulation. An optional software key enables the very latest generation 8PSK and 16QAM modulation and associated FEC modes to deliver even greater satellite bandwidth savings.

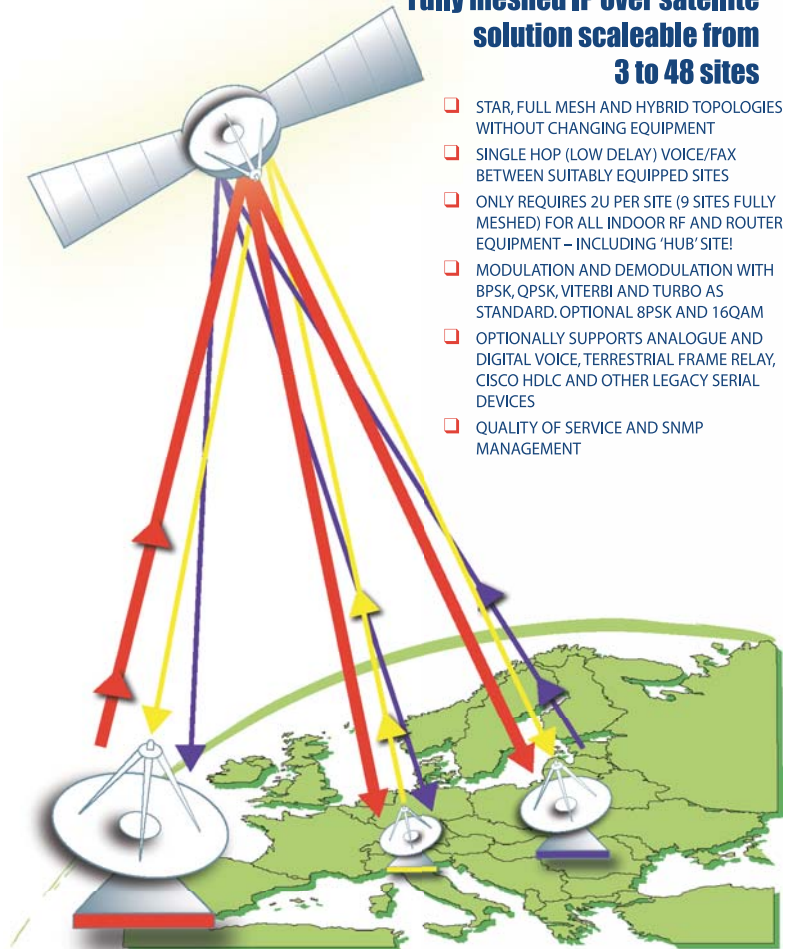
Deploying the DBM 3000, with 4 (licence-key expandable to 8) built-in demodulators and an integral fully-featured modulator, powerful point-to-multipoint networks are achievable at a price/performance ratio previously unheard of.

However, when combined with purpose designed access devices such as SkyPerformer from ONE-SAT; star, full-mesh and hybrid satellite networks are realisable. This results in any-to-any voice and data communication without the latency and call set-up delays experienced with other technologies such as TDMA and DAMA. In fact, many users of our demodulator products become customers only after usage of their existing TDMA networks has increased to the point where service levels can no longer be met.

To put the DBM 3000 flexibility into perspective, a nine site fully-meshed SCPC network with SkyPerformer requires only 2U of rack space per site, for all modulation, demodulation and IP routing. This topology would provide simultaneous single hop connectivity between all locations.



Fully meshed IP over satellite solution scalable from 3 to 48 sites



- ❑ STAR, FULL MESH AND HYBRID TOPOLOGIES WITHOUT CHANGING EQUIPMENT
- ❑ SINGLE HOP (LOW DELAY) VOICE/FAX BETWEEN SUITABLY EQUIPPED SITES
- ❑ ONLY REQUIRES 2U PER SITE (9 SITES FULLY MESHED) FOR ALL INDOOR RF AND ROUTER EQUIPMENT – INCLUDING 'HUB' SITE!
- ❑ MODULATION AND DEMODULATION WITH BPSK, QPSK, VITERBI AND TURBO AS STANDARD. OPTIONAL 8PSK AND 16QAM
- ❑ OPTIONALLY SUPPORTS ANALOGUE AND DIGITAL VOICE, TERRESTRIAL FRAME RELAY, CISCO HDLC AND OTHER LEGACY SERIAL DEVICES
- ❑ QUALITY OF SERVICE AND SNMP MANAGEMENT

The DBR 3000 is the third member of the series. Designed with the mission critical user in mind, it is unique in its ability to process up to 16MSPS across all 8 channels and switch-over to a redundant demodulation module and psu in the event of a logic or power failure.

The **DBR 3000** possesses all the other features of the non-redundant version but with extra peace of mind. It is available in 4 and 8 channel configurations.

DBx 3000 series products may be configured using RS232, RS485 or via the Ethernet interface using Telnet.

DBx 3000 Demodulator series features summary

	DBH 3000	DBM 3000	DBR 3000
No of demodulator channels (Note 1)	4,8,12,16	4,8	4,8
Enclosure size	1U x 19"	1U x 19"	1U x 19"
BPSK	Standard	Standard	Standard
QPSK	Standard	Standard	Standard
8PSK (Note 2)	Option	Option	Option
16QAM (Note 2)	Option	Option	Option
Viterbi	Standard	Standard	Standard
Turbo	Standard	Standard	Standard
Integral Modulator	No	Yes	No
Redundant Power and Logic	No	No	Yes
RS 530 Data Interfaces (Note 3)	Yes	Yes	Yes
L-band or 70/140MHz versions	Specify	Specify	Specify
Demod RF connector - L-band	'F' Type	'F' Type	'F' Type
- 70/140MHz	BNC	BNC	BNC
Modulator RF Connector - L-band	N/A	'N' type	N/A
- 70/140MHz	N/A	BNC	N/A
M&C - RS232, RS485 & Ethernet	Yes	Yes	Yes

Note 1 – The 4 channel unit may be upgraded to 8 channels with optional 4 channel licence key. **DBH** requires additional demodulator module and further licence keys to upgrade to 12 and 16 channels.

Note 2 – Enabled with optional licence key.

Note 3 – Presented on DB25F connectors (**DBH** supplied with 'Y' cables).

Specifications subject to change.

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