

# MobiMUX 2.0

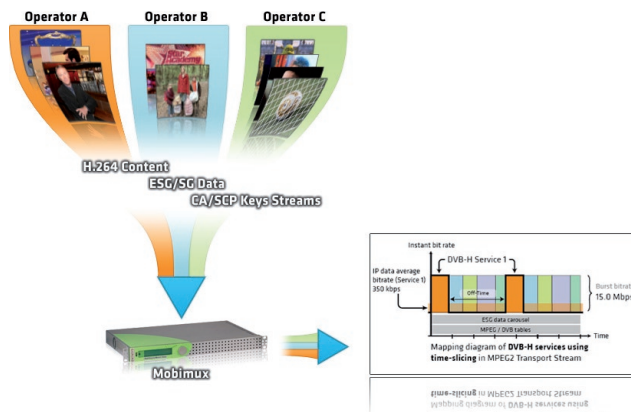
## DVB-H IP Encapsulator



**MobiMUX is the unique FPGA processing DVB-H IP encapsulator, featuring an architecture focused on bandwidth and service optimization with very high stability.**

Time-slicing, MPE-FEC, IP encapsulation are the basis for DVB-H Mobile TV reception. But when it comes to commercially deploy DVB-H services, the IP Encapsulator must provide all administration and service platform interfacing facilities required by broadcasters and network operators.

MobiMUX supports the management of Multi-MNO sharing the same IP encapsulator while guaranteeing bandwidth allocated to each operator. Bandwidth consumption can be logged so that the broadcast network operator can bill each MNO according to the consumed bandwidth.



### Applications

- DVB-H Mobile TV Broadcast
- DVB-H Multi-operator environment
- DVB-H Single Frequency Network build up

### Benefits

- DVB-H dedicated: FPGA Processing
- Reduced point of failure (no hard-disk)
- Native statistical multiplexing
- Multi-MNO support
- Bandwidth consumption statistics logging
- Multi-Platform
- Non time-sliced services
- Native SNMPv3
- Future proof: IPv4 compliant and IPv6 ready

### Characteristics

- 2x Fast Ethernet control ports
- 2x Gigabit Ethernet data ports
- 2x mirrored ASI outputs
- 1x 10 MHz + 1PPS
- 1x 10 MHz output
- IGMP support
- Full SNMPv3 support
- Embedded HTTP server
- Real-time monitoring

### Options

- Multi-MNO support
- Integrated SFN Adapter
- Built-in GPS receiver

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## DVB-H IP Encapsulator

### Physical Interfaces

Data	2x Gigabit Ethernet data port
Control	2x Fast Ethernet for standard web based interface.
MPEG2-TS	2x Mirrored ASI outputs

### System Interfacing

Service and Content Protection System	ECM/STKMs insertion optimization OSF and OMA-BCAST compliant
ESG/SG	IPDC/OMA-BCAST compatible
H.264 encoders	Native statistical multiplexing. No protocol with encoders

### Processing

DVB-H service	IP encapsulation according to ETSI EN 302 304 and ETSI EN 301 392 Time slicing + MPE-FEC per service Non time-sliced services PSI/SI automatic generation
Real-time monitoring	IP traffic, Padding columns, off-time...
Multi-MNO	Multi-Platform Bandwidth consumption logging Guarantee bandwidth to each MNO
Bandwidth optimization	Native statistical multiplexing Optimise burst stuffing ratio ECM/STKMs insertion optimization ESG Bootstrap insertion optimization Configurable burst cycle time
MIP Insertion	Integrated SFN Adapter Multiple cells support
Supervision	Full SNMP v3 support Easy integration with any NMS User Management

### Alarms

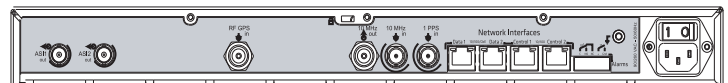
Sources	IP input missing IP input overflow Output overflow PSI/SI table error repetition
SNMP	Any alarm can be configured as a trap and/or trigger relay out

### Environment

Operating temperature	0 to 50°C / 0 to 122 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing

### Physical

Height	43 mm / 1.7 in.
Width	440 mm / 17.4 in.
Depth	274 mm / 10.79 in.
Format	1 RU, width 19"
Power supply	100-240VAC
Power consumption	20W



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