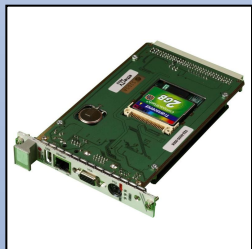
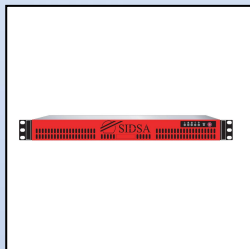


VegaMux Multiplexer is a carrier-grade head-end infrastructure element enabling flexible manipulation of MPEG2 Transport Streams in digital networks. VegaMux provides multiplexing, PSI/SI processing and scrambling of many services received over IP and delivered over IP and ASI interfaces. Its robust, extensible and highly scalable design supports MPEG re-multiplexing functionality, including PID remapping and filtering, insertion/regeneration of PSI/SI tables, service redundancy as well multiple IP sockets containing MPTS and SPTS. This configuration not only reduces rack space and power requirements, but also simplifies network infrastructure while delivering a high-availability solution.

The extended PSI/SI capabilities of VegaMux allow addressing many unique situations and challenges. All PSI and SI tables can be regenerated and played out, changing dynamically according to input changes. The optional built-in DVB-CSA scrambler with DVB Simulcrypt interface allows easy integration with many leading Conditional Access (CA) systems, e.g. KeyFly 2.0 (SIDSA CAS).

The VegaMux series have different models varying from an ultra-compact solution (board housed in an EtherTV chassis) to a 1RU compact unit. Depending on the model, different input/output interfaces are available. ASI interfaces can be added using EtherTV Bridge devices.



KEY FEATURES

- TS multiplexing/re-multiplexing, scrambling and IP streaming
- Multiple MPTS/SPTS received over IP and multiple MPTS generated delivered over IP. ASI output is available in POL-VEGA-MUX01 model
- MPEG-2 TS over IP (UDP/RTP); multicast and unicast addressing are supported
- Advanced management of PSI/SI tables, service filtering, and remapping
- Extended PSI/SI capabilities:
 - PSI/SI inserting (e.g. EPG, play-out carousels...)
 - Dynamic PSI/SI re-generation
 - EIT multiplexing, demultiplexing and re-multiplexing
 - Easy and powerful Logical Channel Number (LCN) configuration
- Optional built-in DVB-CSA Scrambler and DVB Simulcrypt interface): simultaneous and multiple conditional access (CA) systems supported. This option includes BISS encryption
- Optional Multiprotocol Encapsulation (MPE): multiple IP streams can be encapsulated and multiplexed in the outgoing TS
- Open loop statistical multiplexing (OLSM) provides the best QoS maximizing the number of available programs
- Easy configuration via POLARplus Manager software tool
- Device configurations can be saved and restored, making frequent configuration changes easier
- 1RU/19" and ultra-compact solution available

SPECIFICATIONS AND REQUIREMENTS

- **ASI Interface (POL-VEGA-MUX01)**
 - ✓ 2x mirrored outputs
 - ✓ Connector: BNC female, 75 W
 - ✓ Maximum throughput: 50 Mbps
 - ✓ Input Return Loss: > 17dB
- **Network Interface (Streaming and Management)**
 - ✓ 10/100 (RJ45) half/full duplex, auto negotiate in POL-VEGA-MUX01 and POL-VEGA-MUXC
 - ✓ 2 x 1GbE in POL-VEGA-GMUX01
- **Network Protocols**
 - ✓ UDP/RTP (Streaming Multicast/Unicast)
- ✓ TCP/IP (Management)
- ✓ SAP/SDP
- ✓ IGMP v1, v2
- **Power & Physical:**
 - ✓ See Table 1
- **Environmental:**
 - ✓ Agency Approvals: CE, RoHS
 - ✓ Operating Temp. & humidity: 0 to 50°C, < 80 % RH
 - ✓ Storage Temp. & humidity: -10 to 70°C, < 95 % RH

- o **Limited Warranty:**
 - ✓ 1-year standard limited warranty. Warranty extensions are available

ORDERING INFORMATION

- o **POL-VEGA-MUXC: VegaMux multiplexer in compact solution, one IP output**
 - ✓ **MUX-CSA:** VegaMux option; simulcrypt interface for CSA scrambling
 - ✓ **MUX-MPE:** VegaMux option; Multiprotocol Encapsulation support
- o **POL-VEGA-MUX01: VegaMux multiplexer in 1RU solution, one IP/ASI output**
 - ✓ **MUX-CSA:** VegaMux option; simulcrypt interface for CSA scrambling
 - ✓ **MUX-MPE:** VegaMux option; Multiprotocol Encapsulation support
- o **POL-VEGA-GMUX01: VegaMux multiplexer in 1RU solution, up to eight IP outputs**
 - ✓ **MUX-CSA:** VegaMux option; simulcrypt interface for CSA scrambling
 - ✓ **MUX-MPE:** VegaMux option; Multiprotocol Encapsulation support

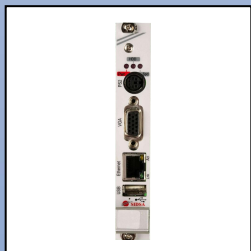
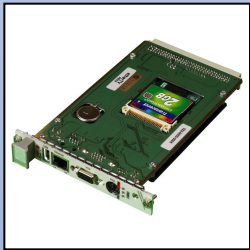
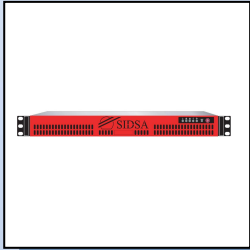


Table 1: VegaMux models features

	Output		Number of outputs	Processing Bitrate (Mbps)	Ethernet Interface	Power (W)	Physical	
	IP	ASI					Dimensions (H/W/D) mm	Weight (Kg)
POL-VEGA-MUXC	x	-	1	80	1 x 10/100	20	129, 20, 174	0.4
POL-VEGA-MUX01	x	x	1	80	2 x 10/100	25	44, 450, 345	4.5
POL-VEGA-GMUX01	x	-	8	320	2 x GbE	260	44, 450, 356	7.8