

The image features a stylized background of red, wavy, semi-transparent bands that create a sense of depth and movement. On the right side, a tall, silver metal lattice tower is visible, equipped with various antennas and communication equipment. The Harris logo is positioned in the upper left corner.

**HARRIS**<sup>®</sup>

**Complete System Deployment  
for ISDB-Tb**

# The Harris Advantage for ISDB-Tb Integration

As global broadcasters seek new opportunities to diversify programming, improve operational efficiency and generate new revenue streams, realizing the full capabilities of new and emerging standards for digital broadcast, such as ISDB-Tb, is crucial.

Harris has demonstrated a long-standing dedication to meeting the needs of broadcasters as they embrace these new technologies, and now offers the most complete and cost-effective ISDB-Tb solution available. With Harris, broadcasters can more effectively deliver SD, HD and mobile TV channels to fixed and mobile/handheld devices. Our comprehensive product portfolio includes transmitters, gap fillers, MPEG-4 SD and HD encoders, multiplexers and single-frequency network adapters in an integrated system, ensuring customers need turn to only one provider for sourcing, installation and deployment of ISDB-Tb solutions.

Harris understands the critical nature of systems delivery in the South American region. We have invested in local transmitter manufacturing to improve our flexibility and provide better delivery time. The Harris manufacturing facility in Sao Paulo, Brazil, has been serving regional broadcasters since 2010.

## Transmission Solutions for: UHF Broadcasters

### Maxiva™ UAX

The Maxiva™ UAX air-cooled, UHF solid-state transmitter incorporates Harris® PowerSmart® and proven Apex M2X™ multimedia exciter technology to provide today's broadcaster unmatched performance, reliability and quality. Designed with future broadcasting needs in mind, the upgradeable Maxiva UAX transmitter is a compact, cost-efficient solution for ISDB-Tb.

### Maxiva™ ULX

The Maxiva™ ULX liquid-cooled, UHF solid-state transmitter provides today's multimedia broadcasters with an easy to maintain and operate transmitter for ISDB-Tb. Featuring PowerSmart and Apex M2X exciter technology at its core, the Maxiva ULX transmitter is ideal for any analog broadcaster planning a future transition to digital terrestrial broadcasting, regardless of timeframe.

### Maxiva™ UAX Compact Class

The Maxiva™ UAX Compact Class air-cooled, UHF solid-state transmitter incorporates PowerSmart and Apex M2X multimedia exciter technology into a cost-efficient model. It provides today's broadcaster and network operator with a transmitter, gap filler or transposer solution that delivers unmatched performance, reliability and quality in an innovative product that sets new standards for this power range.



Maxiva UAX



Maxiva ULX



Maxiva UAX Compact Class

## VHF Broadcasters

### Platinum™ VAX

The Platinum™ VAX air-cooled, VHF solid-state transmitter incorporates PowerSmart technology and the Apex M2X multimedia exciter to deliver the best possible RF efficiency in the VHF spectrum for today's multimedia broadcaster. Designed with future broadcasting needs in mind, the Platinum VAX transmitter is a single-transmitter platform for Band III VHF analog or digital operation, including ISDB-Tb.

### Platinum™ VLX

The Platinum™ VLX liquid-cooled, VHF solid-state transmitter incorporates PowerSmart technology and the Apex M2X multimedia exciter to deliver unmatched performance, reliability, quality, and ease of service and maintenance for ISDB-Tb. The Platinum VLX transmitter delivers a flawless digital signal that complies with technical and regulatory standards for all multimedia and mobile television services. In addition, the Platinum VLX features a 1 to 1 redundant power supply and pallet for on-air reliability.



Platinum VAX



Platinum VLX

# Encoding and Transport Solutions

## Selenio™ Media Convergence Platform



Selenio

The next-generation Selenio™ media convergence platform presents an all-new approach to signal processing and compression in today's broadcasting landscape where baseband and broadband are converging.

With Selenio, MPEG-2 and H.264 compression standards are supported from SD and HD to 3 Gb/s and mobile. Hybrid applications such as decoding an incoming compressed, contribution-quality stream, converting it to the required HD format and re-encoding it for consumer redistribution are easily managed, all within a single Selenio platform.

The Selenio encoder module provides compression of a single video signal and compression of up to eight streams of audio supporting a variety of common algorithms, as well as the processing of associated VBI and VANC data. Selenio encoder modules support mobile encoding for ISDB-Tb by providing a reduced-resolution compressed stream output.

With a built-in Single Frequency Network (SFN) adapter, the Selenio multiplexer module provides the functionality necessary for synchronization of ISDB-Tb transmitters operating as a single-frequency network. Harris Corporation's global experience with SFN allowed us to be first in on-air ISDB-Tb SFN.

## 6800+™ Modular Core Processing Platform



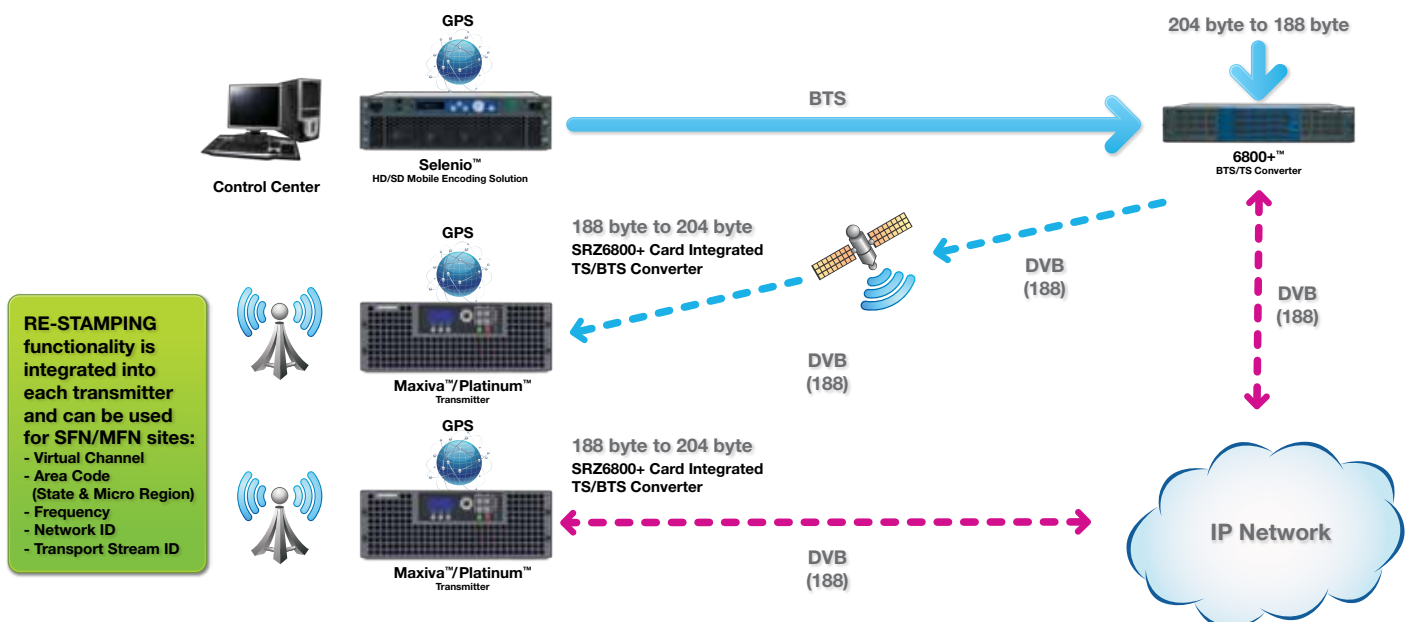
6800+

The 6800+™ modular core processing platform is well-known around the globe for delivering a broad range of core distribution and processing functions in a low-cost and flexible package. Forming the hub of the Harris ISDB-Tb distribution system is the SRZ6800+ module, the latest addition to the 6800+ product line.

The SRZ6800+ module transports the ISDB-Tb Broadcast Transport Stream (BTS) efficiently over normal 188-byte ASI infrastructure, and re-creates a transmission-ready BTS signal at the receive side. The payload rate of the ASI signal going through the network is approximately equal to the payload of the active segments in the ISDB-Tb broadcast.

Highly flexible, the SRZ6800+ module can also be integrated into Harris transmitters.

## ISDB-Tb SFN/MFN Signal Flow (Satellite and IP) Diagram



## ONE Company for Workflow Solutions Throughout the Media Chain

Harris is the ONE company delivering interoperable workflow solutions across the entire media delivery chain — providing today's broadcaster with a single, integrated approach to capitalize on the benefits of IT and mobile applications. By providing unparalleled interoperability across our product portfolio, Harris is able to offer customers integrated solutions that improve workflows, save money, enable new revenue streams and provide a migration path to emerging media business models. To meet the evolving needs of broadcast, distribution, government agencies and entertainment businesses, Harris is the ONE answer for change.

## Service And Support

At Harris, we are committed to customer service excellence. It is our goal to provide the highest level of support by applying a simple rule: We take ownership of helping our customers succeed. Our support teams consist of innovative technical experts who support all situations regarding product performance, integration and operational processing. We are adept at providing proven solutions, making workflows better and ensuring reliability of the product and system. At Harris, our experienced and dedicated teams stand ready to help you meet your goals for premium product performance, 100% up-time and reduced maintenance investment.

## Warranty

Because we want to assure you that Harris stands beside its products and system solutions, our products carry a standard set of warranty services, which are competitive with — and in some cases outperform — others in the industry.

## Service Packages

We offer value-add services that allow you to customize the level of services you need in meeting mission-critical performance levels. Our service package options offer many ways to upgrade your standard warranty by choosing the All-Inclusive OnePak, or by selecting individual services from our extensive portfolio. Our service and support advisors can assist in the selection of the individual services that best suit your requirements.

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<b>Europe and Africa</b>	+44 118 964 8200
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For more information, please visit [www.broadcast.harris.com](http://www.broadcast.harris.com).

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