



4400 Modular Series with 8VSB Receiver

Receive, Demux & Protect Broadcast Feeds with Automatic Failover Between Fiber & OTA Sources

- ✓ Receive and stream in IP, all major and minor channels from 8VSB broadcast sources
- ✓ From 4 to 12 RF carriers per chassis for total flexibility to suit your market and tower situation
- ✓ Studio-direct feed reception includes demux and PID remap capabilities for IP inputs
- ✓ Automatic service failover between studio direct and OTA feeds
- ✓ Optional transcoding of 8VSB & IP inputs supports HD → HD, HD → SD downscale and SD → SD, between MPEG-2 & MPEG-4
- ✓ Video thumbnails and stream downloads provide increased operational visibility for all tuner and IP feeds

Reduce the number of rack units - choose an all-in-one 8VSB to IP solution with optional transcoding to adapt resolutions, bitrates and codecs to your network

Enjoy streamlined set-up and deployment with VidiOS™, an award-winning and modern user interface

Ensure broadcast channel reliability with redundant power and source failover

Future-proof your network with migration path to ATSC 3.0 with future hardware upgrade



Replace end-of-life equipment, save space and power, enjoy professional support

Deployment Scenarios

- ✓ Centralized and redundant control of all broadcast sources in your master headend.
- ✓ Deploy at remote reception sites to improve visibility and reduce backhaul costs.
- ✓ Receive all your local broadcast channels, including all primary HD and secondary SD sub-channels, and transcode them for DSL, cable and adaptive bitrate delivery.
- ✓ Replace legacy equipment with a modular, field-proven solution; add capacity as your business grows.

Applications

- ✓ Receive, monitor and stream all OTA & studio direct broadcast channels in your market.
- ✓ Use broadcast antenna feeds to automatically backup studio direct fiber feeds.
- ✓ Experience powerful VidiOS™ management and troubleshooting tools with inbound and outbound video thumbnails, stream capture and download, extensive statistical analysis and stream logging.
- ✓ Enable full headend visibility with included probe capability and integration with the Inca All Seeing Eye monitoring system.

Chassis Options

4410 Chassis



- ✓ 1 expansion module bay
- ✓ Up to 8 HD or 20 SD linear transcodes
- ✓ Up to 4x 8VSB tuners

4420 Chassis



- ✓ 2 expansion module bays
- ✓ Up to 16 HD or 40 SD linear transcodes
- ✓ Up to 8x 8VSB tuners

4430 Chassis



- ✓ 3 expansion module bays
- ✓ Up to 24 HD or 60 SD linear transcodes
- ✓ Up to 12x 8VSB tuners

Technical Specifications

8VSB/QAM Receiver Module

Tuners	4x 8VSB ATSC or DVB-C Annex B QAM tuners per module
Input Connectors	RF 75 ohm F-Type

Demux

8VSB & IP Inputs	Demux one or more programs from input MPTS and stream to SPTS IP multicast via GigE or stream entire MPTS, with or without padding
From IP Sources	10x IP direct outputs included, license upgradeable to 48 or 96

Transport Stream Processing

Inputs	MPEG-2 SPTS/MPTS Transport Stream and Demultiplex from MPTS
Outputs	MPEG-2 SPTS Transport Stream, MPTS pass-through, simultaneous MPTS pass-through and demux to SPTS
Input and Output Video Codecs	MPEG-2 and MPEG-4 AVC, 4:2:0
Resolutions and Frame Rates	1080i30, 720p60, 480i30 and other major broadcast formats
Transport Stream Optimizations	PID and Program Filter and Remap, Jitter Correction, Strip Null Padding
Closed Captions	EIA 608/708 passed through if present in source
SCTE 35 Ad Markers	Passed through if present in source
Audio PID Pass-Through	Up to 10 per program

Redundancy Options

Service Failover	Automatic failover to backup source Automatic recovery to primary source Monitor up to 16 primary source PIDs Up to 6 user-configurable parameters and duration thresholds
N+1 Chassis Redundancy	Automatic failover to spare chassis Automatic recovery to primary chassis

Audio Transcode (Optional)

Source Audio Codecs	AC-3, EC-3, AAC (ADTS & LATM), MPEG 1/2 Audio Layer I/II
Source Audio Channels	7.1, 5.1, 2.0, 1.0
Output Audio Codec	AAC (ADTS & LATM), MPEG-1/2 Audio Layer I/II
Output Channels	2.0, 1.0

Hardware Processing & Receiver Modules (Optional)

VMA-8VSB-XC2	4x 8VSB tuner plus dual processor
VMA-8VSB-XC	4x 8VSB tuner
VMA-XC3	Triple processor transcode module
VMA-XC2	Dual processor transcode module
VMA-XC	Single processor transcode module
VMA-ASI-XC2	6-port ASI interface plus dual processor
VMA-ASI-XC	6-port ASI interface

Management

Configuration	Powerful VidiOS™ web-based User Interface
Visual Mosaic Monitoring	Compatible with Inca All Seeing Eye
Management Interface	1000 Base-T, Copper
NIC Redundancy	LACP, Active Failover, Round Robin
SNMP	SNMP Trap Forwarding

Regulatory Compliance

EMC Standards	FCC Part 15 Class A
Safety Standards	CSA/UL 60950-1

To arrange an online demonstration or discuss your project, send a request to sales.na@incanetworks.com