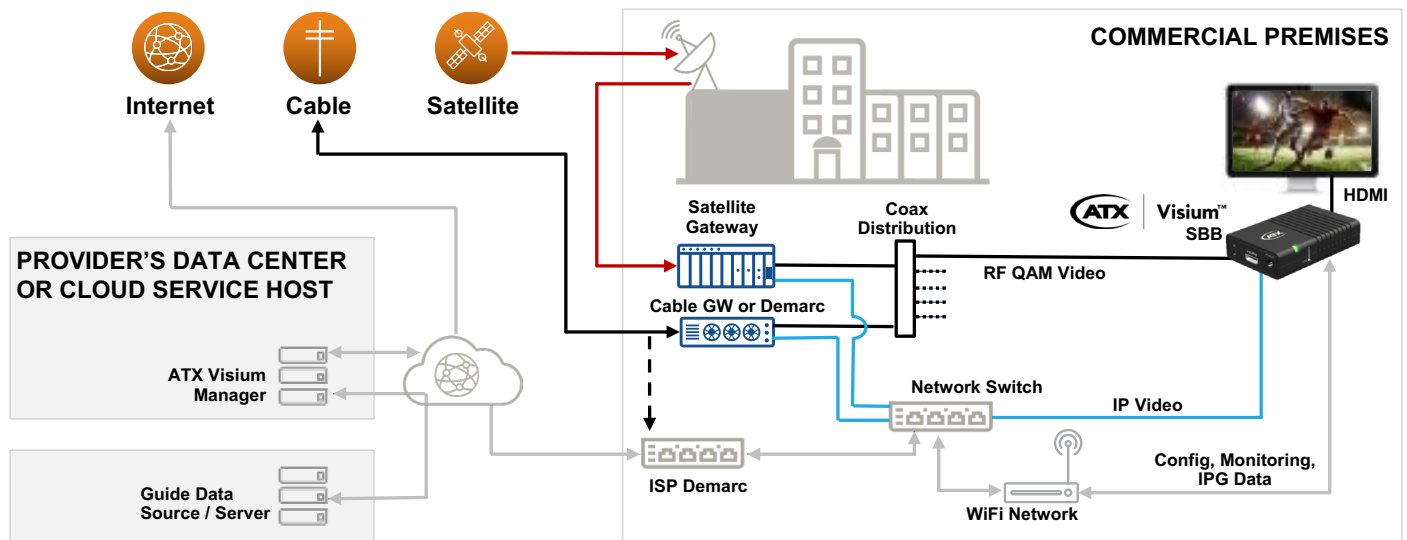# Visium Set-Back Box

Visium Set-Back Box

ATX's Visium™ Set-Back Box is a low-cost security adapter designed to enable commercial video service providers to bring hospitality and other commercial customers into compliance with security requirements through the delivery of encrypted bulk video to properties lacking Pro:Idiom™-capable TVs. The ATX Visium (VSBB) is an ideal solution for commercial accounts currently being served with clear QAM video. The set-back box solution allows MPEG4-based service delivery to properties with MPEG2-only capable TVs. The VSBB features an Integrated Program Guide (IPG) designed to improve hotel guests' experiences by significantly simplifying the navigation of lengthy channel line-ups. Self-configuration and centralized management and monitoring capabilities via ATXs Visium Manager cloud-based EMS simplify deployment and reduce operational complexity.

Features

- Compact size and IR extender for easy out-of-sight mounting
- Pro:Idiom™ decryption capability
- QAM and IP video ingest
- HDMI output
- Intuitive, professional UI with customizable branding and Interactive Program Guide

- WiFi module for IPG updates, configuration and monitoring via Visium Manager (EMS)
- Programmable learning buttons for TV power and volume on remote control enable single remote operation
- Offline/Standalone operating mode option supports auto-scan for channel lineup and IPG population from in-band PSIP or DVB-SI guide data

Application Diagram

Included in the box

- Visium Set-Back Box
- External power supply
- Remote control with learning buttons for TV control
- Batteries for remote control
- IR extender
- HDMI cable
- Mounting bracket with VESA pattern

Specifications

INPUT	
QAM INPUT	
CONNECTOR	F-Type Female (75Ω)
QAM MODES	J.83 Annex B, 64, 256 QAM
INPUT FREQUENCY	44–1002MHz, Supporting STD, IRC, HRC
RF INPUT LEVEL	-10 dBmV to +20 dBmV per digital carrier
IP INPUT	
CONNECTOR	RJ45
ETHERNET MODES	10/100 Mbps, IEEE 802.3-2002
PROTOCOLS	.TS based streams over UDP
OUTPUT	
BASEBAND OUTPUT	
CONNECTOR	HDMI
PROTOCOLS	HDMI v2.0 & HDCP v2.2
OTHER INTERFACES	
IR EXTENDER	3.5mm port for IR remote control
USB	USB 2.0 Type A port
WiFi	1x1 IEEE 802.11 b/g/n, 2.4GHz
LED	Multicolor for status indication
CORE PROCESSING	
PROCESSING	16,000 DMIPS ARM processor
MEMORY	1GB DDR
DECODING	
VIDEO	
CODEC	MPEG-2 up to MP@HL, AVC H.264 up to MP@L4.1
RESOLUTION	up to 1080p60
AUDIO	
DOLBY	AC-3 decoding standard, E-AC3 (Dolby Digital+) on specific models
MPEG AUDIO	MPEG-1 Audio Layers 1, 2 & 3, MPEG-2 Audio Layer 2
SAMPLE RATE	32–192KHz
SECONDARY AUDIO	Secondary audio track selection
CLOSED CAPTIONS	
CLOSED CAPTIONS	CEA 608 & 708
CONDITIONAL ACCESS	
PRO:IDIOM	Decryption support
AES 128	AES 128 decryption, ECB & CBC modes

Specifications Continued

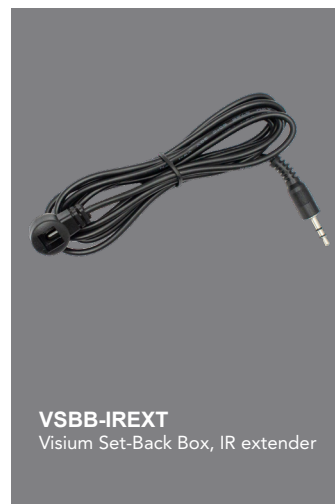| POWER	
EXTERNAL ADAPTER	
EXTERNAL ADAPTER	Input: AC100 ~ 240V, 50/60Hz, 0.3 Amps Output: DC 12V, 1.0 Amps
SBB CONSUMPTION	Operating typical – 12 Watts, Passive Stand-by – 0.5 Watts
PHYSICAL & ENVIRONMENTAL	
UNIT DIMENSIONS	70mm x 110mm x 22mm (2.7 x 4.3 x 0.9 inches)
UNIT WEIGHT	0.2 kg (0.4 lbs)
TEMPERATURE	Operating: 0°C to +45°C (+32°F to +113°F) Storage: 0°C to +70°C (+32°F to +158°F)
HUMIDITY	Operating: 20–80% RH, Non-condensing Storage: 10–90% RH, Non-condensing
REGULATORY	
EMMISSIONS	47 CFR FCC Part 15 Subpart B (Class B Limits) ICES-003 Issue 7 October 2020 IC RSS 247, issue 2
ELECTRICAL	Power Supply Adaptor c UL US listed

Visium Manager EMS Server Features

- Operational deployment at scale
- Dashboard view with advanced individual and global status and health metrics for all devices
- Secure field-device connectivity over TLS+
- Bulk creation and push of configurations and firmware upgrades

- Monitoring and alerts for proactive resolution of issues
- Flexible grouping and subcategorizing of devices
- Multiple user account support
- ATX hosted or self-hosted deployment options
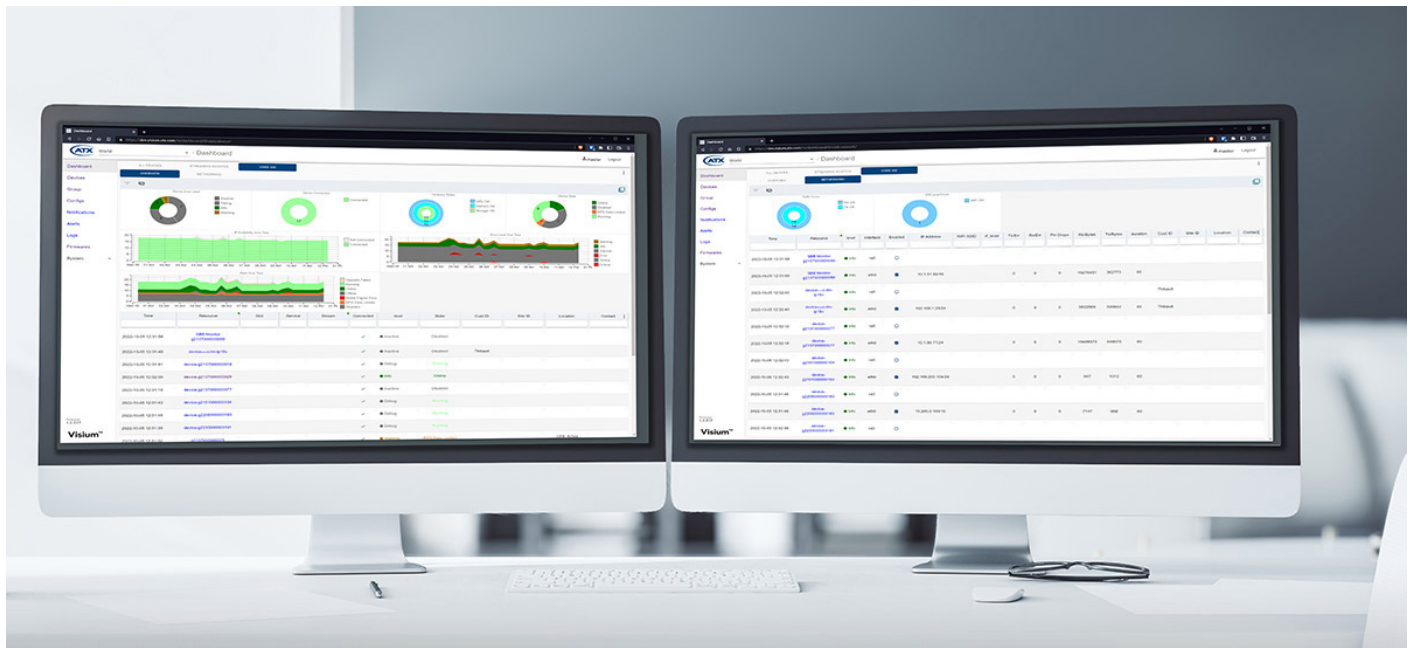
Ordering Information

Part Number	Description
Set-Back Boxes	
VSBB100	Visium Set-Back Box, standard version
Licenses and Plans	
VSBB-VMAP_OFFLN	Visium Manager Plan (6yrs) + Offline Mode License
VSBB-ANVMSUB	Annual Visium Manager Subscription for VSBB
Replacement Parts	
VSBB-MTNGBKT	Visium Set-Back Box, mounting bracket
VSBB-PSU	Visium Set-Back Box, power supply
VSBB-IREXT	Visium Set-Back Box, IR extender
VSBB-RCU	Visium Set-Back Box, remote control unit

VSBB-MTNGBKT
Visium Set-Back Box, mounting bracket

VSBB-PSU
Visium Set-Back Box, power supply

VSBB-IREXT
Visium Set-Back Box, IR extender

VSBB-RCU
Visium Set-Back Box, remote control unit

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