

Cisco DAXI

The Cisco DSAN Auxiliary Input Box (DAXI) is a compatible external product that converts up to four analog video channels to digital format for distribution via the Digital Service Access Node (DSAN).

The DAXI converts baseband video and audio to an MPEG-2 transport stream. The output is carried over a single ASI channel to the DSAN ASI input port. The content that the DAXI converts can come from any external baseband sources, such as DVD players, analog security cameras, or character generators.

The DAXI is a 1RU stand-alone product that is simple to install, requires no maintenance or remote management, and can be mounted on a rack, wall, or shelf.

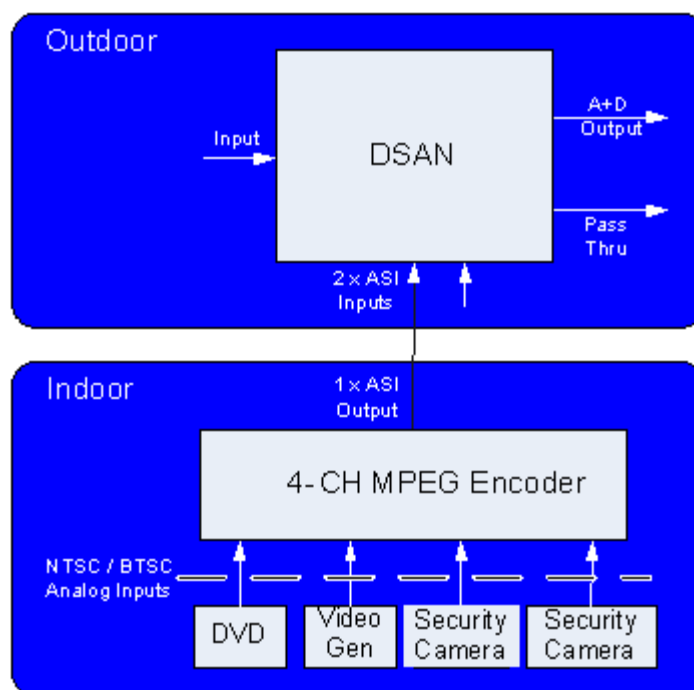
Figure 1. Cisco DAXI



The DAXI accepts four analog baseband video and audio composite signals over female RCA connectors. The DAXI provides one standard ASI output on a female F-connector, and is powered by an external 12 VDC power supply (included).

Features

- 4:1 Baseband to MPEG-2 encoding
- ASI output
- Requires no user configuration
- Stackable, 1 RU profile
- SCTE 21 Closed Caption support
- Automatic Gain Control for video
- Integrated frame synchronizer with internal reference

Figure 2. DAXI Application Diagram**Optional Accessories**

A mounting kit, available separately, includes the following:

- DAXI wall mounting bracket
- DAXI rack mounting bracket (accommodates 2 DAXI units)
- Power supply wall mounting bracket

Product Specifications

Table 1. Video

Specification	Description
Standard Composite Input Systems	NTSC-M
Video Level	1 V p-p nominal
Frequency Response	±0.65 dB, 0.5 to 4.2 MHz
Differential Gain/Phase Noise	≤ 3%, ≤ 3°
Impedance	75 ohms unbalanced
Connector	Female RCA
Number of Channels	4
Aspect Ratio	4:3

Table 2. Audio

Specification	Description
Inputs	Analog
Connector	Female RCA
Number of Channels	4 stereo pairs
Audio/Video Synchronization	< ±20 ms

Table 3. VBI Data Processing

Specification	Description
Closed Captions on Composite Input	CEA-608
Output	SCTE 21 format

Table 4. Video Processing

Specification	Description
Encoding	MPEG-2 MP@ML
Chroma Format	4:2:0
System	525/29.97 Hz
Encoding Rate	5.5 Mb/s
Horizontal Resolution	720
Vertical Resolution	480

Table 5. Audio Processing

Specification	Description
Encoding	Dolby™ Digital (AC-3)
Sample Rate	48 kHz
Dolby Digital (AC-3) Encoding Modes	2/0 Stereo
Dolby Digital (AC-3) Encoding Rates	256 kb/s

Product Specifications, cont'd.

Table 6. Transport Output

Specification	Description
Output Type	DVB-ASI
Number of Outputs	1
Connector	Female F-connector (sealed)
Impedance	75 ohms
TS Rate	33.5 Mb/s
TS Packet Length	188 bytes
ASI Bit Rate	270 Mb/s \pm 100 ppm
Output Level	800 mV p-p nominal

Table 7. Monitor and Control

Front Panel LED Labels	Color	Description
PWR	Green	DAXI has power
VIDEO 1	Green	Port 1 video is present
VIDEO 2	Green	Port 2 video is present
VIDEO 3	Green	Port 3 video is present
VIDEO 4	Green	Port 4 video is present
ASI	Green	DAXI software completed initialization and DAXI is outputting a transport stream over ASI
ALARM	Red/Yellow	Red indicates an error condition such as two fan failures. Yellow indicates a warning condition such as high ambient temperature, low ambient temperature, or one fan failure. Off indicates no error or warning.

Table 8. Environmental

Specification	Description
Operating Temperature Range	0° to 50°C (32° to 122°F)
Storage Temperature Range	-40° to 60°C (-40° to 140°F)
Relative Humidity	5 to 95%, non-condensing
Altitude	-60 to 3700 meters
Dimensions	1.7 in. H x 8.0 in. W x 8.8 in. D 4.32 cm H x 20.32 cm W x 22.35 cm H
Weight	4.4 lbs (2 kg) with power supply
Cooling	Forced cooling with air flow from front to rear and rear sides

Table 9. Power Requirements

Specification	Description
Input Voltage	100 to 127 VAC
AC Power Consumption	< 20 W

Table 10. Regulatory Compliance

Specification	Description
Regulatory and Safety Approvals	Will satisfy regulatory compliance and safety requirements as required per country where the DAXI will be sold

Ordering Information

Table 11. Ordering Information

Description	Customer Order Number
DSAN Auxiliary Input Box (DAXI) Includes DAXI and 1 external 12 VDC power supply	DSAN_DAXI
DAXI Wall/Rack Mount Accessory Kit Includes 1 power supply wall bracket, 1 wall bracket, and 1 rack bracket*	4036620
DAXI Replacement Fan Kit Includes 1 replacement fan	4036946

* Accommodates 2 DAXI units

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