

## 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.

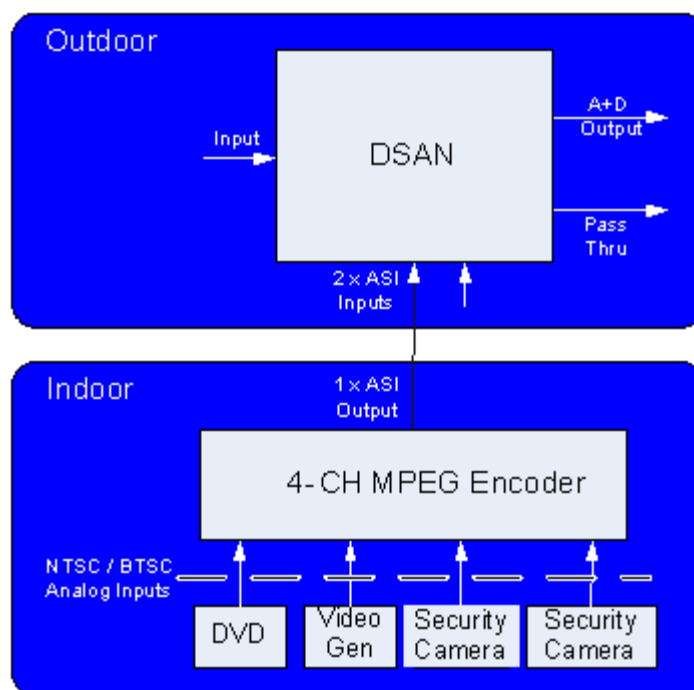
**Figure 1.** Cisco DAXI



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.<br>Yellow indicates a warning condition such as high ambient temperature, low ambient temperature, or one fan failure.<br>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<br>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)<br>Includes DAXI and 1 external 12 VDC power supply                             | DSAN_DAXI             |
| DAXI Wall/Rack Mount Accessory Kit<br>Includes 1 power supply wall bracket, 1 wall bracket, and 1 rack bracket* | 4036620               |
| DAXI Replacement Fan Kit<br>Includes 1 replacement fan  | 4036946               |

\* Accommodates 2 DAXI units

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## For More Information

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