



X-Stream[®] 100D

1 Channel Digital Video Decoder



The X-Stream[®] 100D digital video decoder interprets streaming H.264 encoded IP video and outputs to a channel of analogue video.



Utilising the latest H.264 Main Profile compression algorithm, X-Stream 100D delivers highest quality decoded video for use with devices and applications requiring analogue video. Interpreting and outputting one channels of analogue video, as well as data, audio & contact closure interfaces, X-Stream 100D is a cost-effective solution for transmission of video across any IP network.

Key Features of X-Stream 100D Include:

- ▷ **H.264 Main Profile low latency compression.**
 - H.264 compression provides best-of-breed video performance (D1 resolution @ 25 frames per second), ensuring that network bandwidth is optimised without compromise to quality.
- ▷ **Meets & exceeds transport standards.**
 - X-Stream is part of COE's X-Net range, which is specifically designed for demanding transport and industrial environments. X-Stream 100D includes features such as packet reordering, improving performance in wireless environments.
- ▷ **Comprehensive remote network management.**
 - X-Stream 100D features comprehensive remote diagnostics via intuitive SNMP and web browser interfaces.
- ▷ **Two way audio.**
 - Support for two way audio for help point applications. When coupled with the X-Stream 102, this creates an ideal solution for conferencing and concierge applications.
- ▷ **In-built protocol translation for peripheral device control.**
 - Utilising industry standard method of upgrade (flash upload), new protocols can be loaded into the codec, minimising requirement for inventory & spares holding.

Product Codes:

X-Stream 100D
X-Net Box Single
PSU12VDC
X-Net Rack

1 Channel H.264 video client - 1 x video, 2 x data I/O, 1 x audio I/O, 2 x contact, 1 x relay
6HP housing for external mounting of X-Stream 100D
12V DC power supply for use with boxed X-Stream video client
19" 4U Rack housing up to 14 X-Stream 100D modules



X-Stream[®] 100D

Technical Specifications



Video

Compression Algorithm	H.264 Main Profile, H.264 Baseline Profile, MPEG4, MJPEG
Frame Rate	From 1fps up to 25/30 fps (PAL/NTSC)
Bandwidth Control	From 64Kb/s to 6Mb/s
Resolution	D1 (720 x 576), 2CIF, CIF QCIF
Video Output	PAL/NTSC, analogue composite, 75 Ohm, 1V p-p
On Screen Display	OSD for time, date, camera titles and alarms plus icon based diagnostic alerts.
Compatibility	X-Stream 102, 202, 400

Data

Data Channel	1 x Transparent or User defined Protocol Translator, 1 x Transparent or Console
Data Formats	1 x RS232, RS422, RS485 (2 & 4 wire), 1 x RS232
Baud Rate	1 x Up to 38.4k baud, 1 x Up to 115.2k baud
Link Type	Asynchronous

Binary I/O

Inputs	2 x TTL inputs - Max Isolation 48VRMS, - Max Forward Current
Outputs	1 x relay O/P (grounded) - Max Load 0.1A, 48V. Max RON 16 Ohm

Network

Protocols	DHCP, ARP, HTTP, RTP, NTP, UDP unicast, UDP multicast, TCP/IP, ICMP, IGMP, SNMP, RTP, RTSP
Configuration	Web browser interface
Software Upgrade	Remote Flash Programmable

Video Latency

Encoder to Decoder (Analogue Out)	160ms
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Audio

Encoding	L16/G711/G722
Input Impedance	600 Ohms
Input Level	Line - 2V p-p typ. Input gain level selectable
Output Level	2V p-p typ. (into 600 Ohm) - Balanced, User volume control
Sample Rate	8kHz, 16kHz, 48kHz
Signal to Noise Ratio	>60dB

Physical Interfaces

Video Output	1 x BNC
Data, Audio, Binary, I/O	2 x RJ45
Network Connector	IEEE 802.3aa 10/100BaseT, auto-sensing, full/half duplex

Power Supply

X-Net Chassis	Power from Backplane, 12V DC 800mA max
Stand alone	12V DC, 800mA max

Mechanical

Card	4U x 160mm x 6HP
Box	170mm x 180mm x 66mm

Environmental

Operating Temperature	-30° to +60°C
Storage Temperature	-30° to +60°C
Humidity	20% to 95% (Non-Condensing)

Regulatory Approvals

Standard (Alarms/CCTV Equipment)

EN 55130-4 - Immunity; EN 61000-6-3 - Emissions Light Ind; ENV50204 - Radiated (mobile phone frequencies); EN 60950-1:2002 + A1:2003 - Electrical Safety

Additional (Railways, Transport)

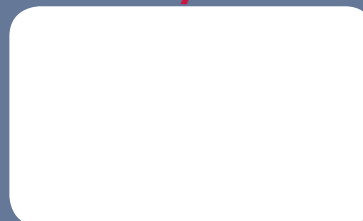
EN 55011: 1998 (inc. low freq. magnetic emissions); EN 50121-4 - Traction Frequency voltages; GS/ES1914, GM/RC1500 - Radiated Emissions; EN61000-4-16 - Signal lines conducted RF immunity

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