

H.264/MPEG-4/MPEG-2/JPEG

Description

The VCX-7401-Traffic single channel CODEC is a highly capable, field hardened product which sets a new standard for encoding and decoding in challenging environments. **This single slot CODEC is designed to slide into an open detector chassis slot of any signal cabinet.** The unit supports bi-directional simultaneous multi-protocol feeds over a full range of resolutions, as well as JPEG frame capture, through RJ-45 and multi-functional SFP interface. An on-board SD card slot allows supplemental storage and easy product update.

Troubleshooting is assisted by the inclusion of a built in decoder, providing an encoded-decoded video signal via a BNC connector, and a RS-232 programming port. Local and remote diagnostics are provided through visual display, web interface, and SNMP.

The encoder allows easy transport and sharing of IP video with local, state & Federal agencies, simultaneously transmitting both high resolution & Internet quality video.



Features

- Simultaneous, dual video encoding
 - H.264
 - MPEG-4
 - MPEG-2
 - JPEG
- VideoLan Client Compatible
- Standard resolution QCIF through D1
- NTSC & PAL
- JPEG frame capture
- Built in decoder
- Built in SD/HDS slot
- 10/100 Ethernet interface via copper and SFP
- RS-232 programming port
- 1 low speed serial data channel
- Advanced diagnostics
- Unicast or multicast (IGMPv.2)
- AC or DC power
- < 10 W power consumption
- Meets NEMA TS2 (-34 to+74 C)



CORE TEC COMMUNICATIONS, LLC

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**Video
Input and Output**

# channels	1 in; 1 out	Composite BNC
Standards	NTSC (EIA RS-170) PAL (CCIR 624)	
Voltage	1 volt p-p 75Ω 50/60HZ	
Compression	H.264 (High Profile SD 3.1) MPEG4 (ISO/IEC 14496 [ASP]) MPEG2 Elementary (ISO 13818-2) JPEG snapshot (FTP transfer)	

Resolution & Maximum Frame Rate

		1-30 fps
	NTSC	PAL
D1	720 x 480	720 x 526
CIF	352 x 240	352 x 288
QCIF	176 x 120	176 x 144

Data Rate 56 Kbps to 5 Mbps

Storage Removable SD or HDSD Card

Serial Data

Protocol RS-422/485

Programming RS-232/422

Data Rate 9.6 to 57.6 Kbps (NRZ)

Connectors RJ-45, USB 2.0

Network

Ethernet 10/100BaseT, 100Base-FX,
100Base-SX (IEEE802.3/802.3u)

Interface RJ-45 and SFP
Protocols Ipv.4,UDP,TCP,RTP,RTSP,HTTP,
FTP, TFTP, SNMP 2.0, IGMP V2
Multicast, SMTP, SAP, ICMP, ARP

Programming & Diagnostics

Modes

Physical	RS-232 programming port
Remote	Telnet, Web Interface, SNMP

Visual

LED's Video Loss, Data, Power

Electrical

Voltage 9-48 VDC, 9-35 VAC

Power Consumption < 10W

Mechanical

Dimensions

1 Slot Card 4.5"W x 1.181"H x 8.07"D

Weight

<1 lbs.

Environmental & Regulatory

NEMA TS2 Shock, Vibration and Transients

Temperature (-)36°C to +74°C (Operating)
(-)40°C to +74°C (Storage)

Humidity 0 to 95% Non-condensing
(Conformal Coating Available Upon Request)

MTBF

>100,000 hours

FCC Title 47, Subpart B, Section 15, Class A UL, CE, ROHS

Ordering Information

Physical	Model Number	Part Number
1 Slot Card	VCX-7401-Traffic	7421-1200-0002