

## ▶ AVS-100 Video Alarm Server

The Radiant Communications Corp **AVS-100 Video Alarm Server** is designed to provide a rugged interface for Video and general purpose inputs and outputs as well as data communications for transmission over an IP network.

The **AVS-100** provides 4-Channels of MPEG2 encoded Video, 2 Full Duplex Data Channels, 20 isolated “wet” or “dry” digital inputs and up to 4 isolated contact outputs along with 2 separately configured RS-232/422/485 bi-directional data circuits. This is all transmitted over a configurable 10/100/1000 Ethernet port. The **AVS-100** is capable of communication with a remote Leroy Alto I/O module through Ethernet.

The **AVS-100** provides outstanding services capable of integrating into many standard software monitoring packages available on the market today.

▶ The **AVS-100** can operate with a remote Leroy Alto I/O module on both Web base and PLC base, and Hirschmann Profibus independently of any connections to the legacy master controller and after the legacy master controller is removed.

With the flexibility of multi protocol bi-directional serial data available on the **AVS-100** the user can easily integrate into existing or new pan/tilt/zoom control systems.

With the available 20 contact closure inputs, 4 relay outputs and 32 virtual inputs from either a Leroy Alto IP mod bus device or profibus device via a profibus to IP gateway the user can easily integrate into existing perimeter detection systems which can seamlessly be integrated into a variety of standard software packages.

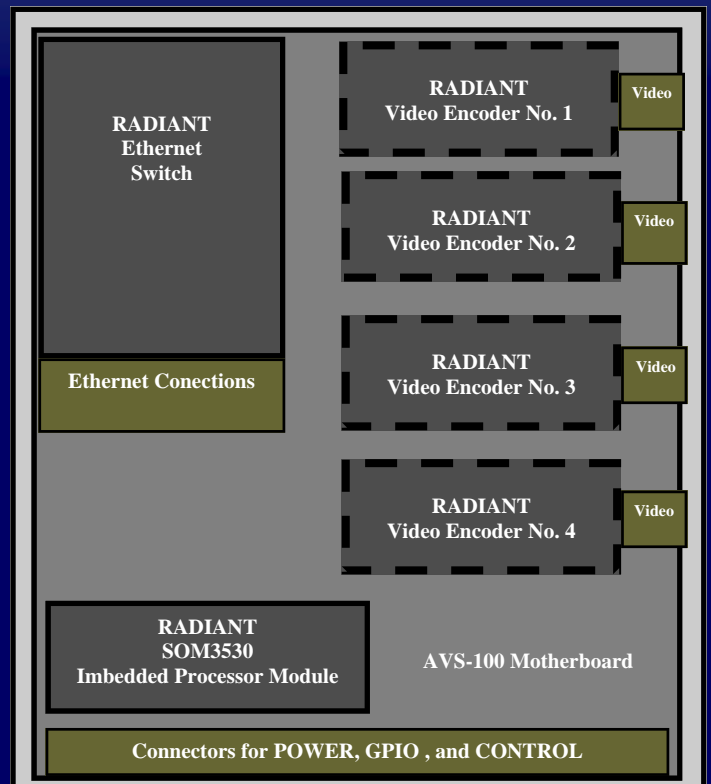
### DESCRIPTION

### BENEFITS

- Cost effective, integrated, single box solution
- Provides 4 Channels of MPEG2 encoded video.
- Provides instant Serial to Ethernet conversion.
- Provides instant GPIO to Ethernet conversion

### FEATURES

- Ideal for surveillance and remote monitoring
- Instant Event messaging by TCP/UDP/SNMP trap
- Provides support for RS-232/422/485 serial to Ethernet conversion.
- Designed for extreme temperature ranges up to 50°C
- Range of 20% to 80% relative humidity, non-condensing.



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## SPECIFICATIONS

### Video Server

#### Compression

MPEG-2 Part 2 (ISO/IEC 14496-2)

#### Resolutions

DI, Half DI, 2CIFExp, 2CIF, CIF, QCIF  
Max 720 x 480 (NTSC), 720 x 576 (PAL)  
Min 160 x 120 (NTSC), 176 x 144 (PAL)

#### Frame Rate

MPEG-2: 30/25 fps @ DI

#### Video Streaming

MPEG-2, Controllable frame rate and bandwidth, Constant and variable bit rate (MPEG-2)

#### Supported Protocols

IPv4, HTTP, TCP, QoS, SNMPv2/v2c/v3(MIB-II), RTSP, RTP, UDP, IGMP, FTP, ICMP, DHCP, ARP, DNS

#### Connector

BNC x 4 + Passive Loop through, Switchable terminations.

### Serial Server

#### Serial Standards

RS-232 / 422 / 485-4W / RS485-2W

#### Serial Communications

Data Bits: 5, 6, 7, 8  
Stop Bits: 1, 1.5, 2  
Parity: None, Even, Odd, Space, Mark  
Baud Rate: 50 bps to 230.4 Kbps

#### Serial Signals

RS-232: TxD, RxD, GND  
RS-422: Tx+, Tx-, Rx+, Rx-, GND  
RS-485-4W: Tx+, Tx-, Rx+, Rx-, GND  
RS-485-2W: Data+, Data-, GND

#### Connector

Phoenix 3.5mm 8 pin

### GPIO Server

#### Inputs

Channels: 20, source type, Passive LoopThrough  
Support for Maximum of 32 Virtual Inputs from Supported Remote Devices  
Sensor Type: NPN, Dry Contact  
Dry Contact

Logic 0: Short to GND

Logic 1: Open

Wet Contact

Logic 0: 0 to 3 VDC

Logic 1: 10 to 30 VDC

#### Outputs

Channels: 4, sink type  
Over Current Limit: 400ma (typ)  
Over Temp. Shutdown 175 C (min)  
Output Current Rating: 200mA per channel  
Isolation: 1K VDC

### Ethernet

#### Interface

Ethernet: (2) Gigabit Ports: Each Configurable as either RJ-45 10/100/1000 Base-TX or (optional) SFP \*

Protection: 1.5KV magnetic Isolation

Protocols: TCP, TCP/IP, UDP, DHCP, SNMP (MIB for I/O and Network), HTTP

LEDs: Link/Activity

\* SFP modules not included.

#### Network Protocols

ICMP, IP, TCP, UDP, DHCP, Telnet, DNS, SNMP, HTTP, FTP

### Indicators

#### LEDs:

Power, Temperature, Status, Video Status

Input x 20 RED / GREEN

Output x 4 RED / GREEN

#### Mechanical:

Rack Unit: 2RU (3.5")

Dimensions: W (18.303") x D (12.0") x H (3.480")

Weight: 6.9 Lbs.

#### Environmental:

0 degrees to 50 degrees C

Humidity Range: 20—80% relative humidity non-condensing

#### Power:

120 / 240VAC @ .25A 30 W

24 VDC Output @ 1A

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
AVS-100-A	Video Alarm Server System 0 Channel Video Encoder
AVS-100-B	Video Alarm Server System 1 Channel Video Encoders
AVS-100-C	Video Alarm Server System 2 Channel Video Encoders
AVS-100-D	Video Alarm Server System 3 Channel Video Encoders
AVS-100-E	Video Alarm Server System 4 Channel Video Encoders

#### Note:

- Due to product enhancements, specifications are subject to change without notice



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