

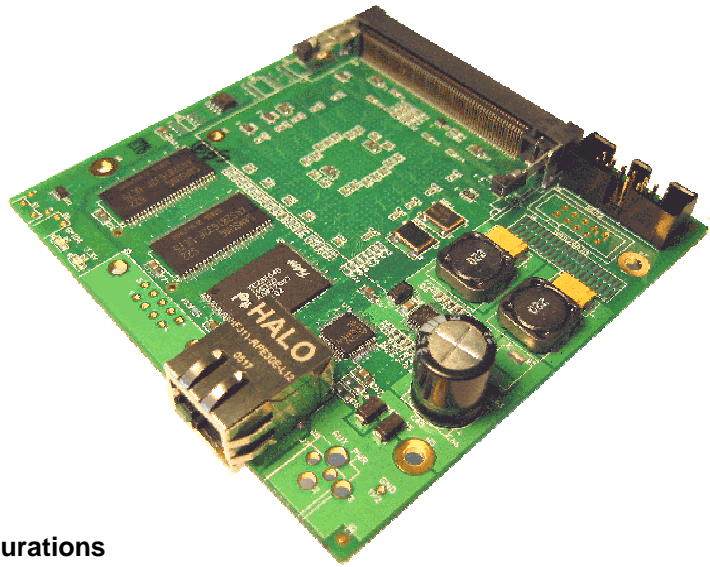
## *A low cost, low power Intel® XScale® IXP420/266MHz processor for customer premises network applications*

The GW2347 is a member of the Gateworks Avila Network Processor family. The GW2347 meets the requirements for customer premises network applications. This single board network processor consists of an Intel® IXP420 XScale® processor operating at 266MHz, 32Mbytes of SDRAM, and 8Mbytes of Flash. Peripherals include a Type III Mini-PCI socket, 10/100 Base-TX Ethernet channel, and serial EEPROM. An RS-232 serial port is available through the JTAG programming connector using a Gateworks GW16027 JTAG Serial Port Adapter. Software support includes Linux and VxWorks® operating systems.

## FEATURES

### *Single Board Computer:*

- ◆ Intel® XScale® IXP420 266MHz Processor
- ◆ 32Mbytes SDRAM
- ◆ 8Mbytes Flash
- ◆ Type III Mini-PCI Socket
- ◆ 10/100 Base-TX Ethernet Port
- ◆ 1Kbyte Serial EEPROM
- ◆ Watchdog Timer
- ◆ Passive Power Over Ethernet
- ◆ Reverse Voltage Protection
- ◆ 6 to 20VDC Input Voltage Range
- ◆ 4.5W Available for Mini-PCI Socket
- ◆ 2.5W Typical Operating Power
- ◆ 0°C to 70°C Operating Temperature
- ◆ Software Support for Linux and VxWorks
- ◆ 1 Year Warranty
- ◆ See Ordering Operations for Other Configurations



## SPECIFICATIONS

### ELECTRICAL

#### **Input Voltage:**

- ▼ 6 TO 20VDC

#### **Operating Current:**

- ▼ 0.2A Typical at 12VDC

### MECHANICAL

#### **Dimensions:**

- ▼ 4.0in x 4.0in x 0.6in (102mm x 102mm x 15mm)

#### **Weight:**

- ▼ 4oz (114g)

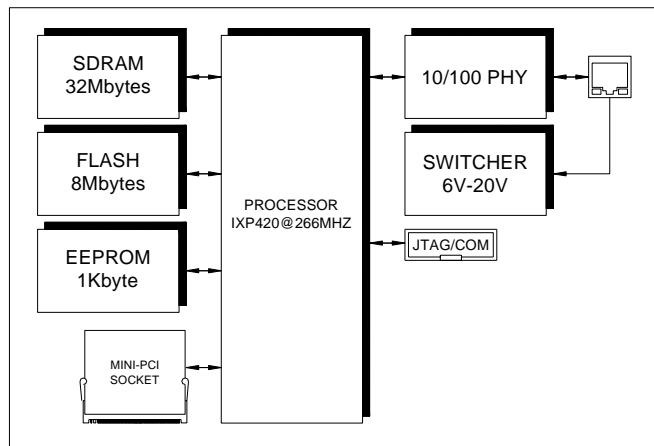
### ENVIRONMENTAL

#### **Operating Parameters:**

- ▼ Temperature: 0°C to +70°C
- ▼ Humidity (non-condensing): 20% to 90%

#### **Storage Parameters:**

- ▼ Temperature: -40°C to +85°C
- ▼ Humidity (non-condensing): 5% to 95%



**Avila GW2347 Functional Diagram**

## ORDERING OPTIONS

### Standard Configurations

#### GW2347

- ▼ IXP420 CPU @ 266MHz
- ▼ 32Mbytes SDRAM
- ▼ 8Mbytes Flash

### Development Kit

#### GW2347-DEVKIT

- ▼ Redboot Boot Loader v2.01
- ▼ Parallel Port JTAG Programmer and Software
- ▼ Serial Console Cables
- ▼ Ethernet Patch Cable
- ▼ Wall Power Supply
- ▼ Ethernet Power Injector

### Other Configurations

The GW2347 can be customized for high volume applications by changing the features listed below. Contact the factory for additional information.

- ▼ Intel IXP42x processor type and speed
- ▼ SDRAM from 32Mbytes to 128Mbytes
- ▼ Flash from 4Mbytes to 16Mbytes
- ▼ Adding and removing peripherals
- ▼ Operating temperature range

	Size	Mini-PCI Sites	Ethernet Ports	Host USB	Operating Temperature	Operating Voltage
<b>GW2347</b>	4" x 4"	1	1	No	0 to 70°C	6-20VDC
<b>GW2345</b>	4" x 6"	4	5	No	0 to 70°C	6-28VDC
<b>GW2348-2</b>	4" x 6"	2	2	No	0 to 70°C	9-48VDC
<b>GW2348-4</b>	4" x 6"	4	2	Optional	-40 to 85°C	9-48VDC

Other configurations of each product are possible. Contact factory for more information.

### Avila Family Major Feature Comparison