XCOM-9347 is a highly integrated solution specially designed to meet PICMG COM0.0 standard requirements. It features a low-power high-performance PowerPC processor in COM Express Compact (microETXexpress) form factor, only 95x95 mm.

**Processor**
Freescale’s MPC8347E PowerQUICC II Pro processor integrates the enhanced e300 PowerPC core, DDR2 memory, Gigabit Ethernet, PCI, dual USB 2.0 Full-Speed port, Floating Point Unit and integrated Security Engine. This processor is rated at 756 MIPS @ 400 MHz.

**Security Engine**
The on-chip Security Engine (H/W Encryption) is designed to off-load computationally intensive security functions, such as key generation and exchange, authentication and bulk encryption from the processor core.

**Network and serial ports**
The XCOM-9347 offers a variety of on-board I/O: two Gigabit Ethernet ports, two USB 2.0 Full-Speed (480 Mbps), one I2C bus, and user General-purpose I/Os. All these ports are accessible on standard COM Express connectors.

**Graphic Interface**
Optional on-board graphic controller provides a GUI (Graphical User Interface) for embedded applications. It supports 8 MByte of memory and uses 200 MHz RAMDAC, with a resolution up to 1280x1024. The 128-bit engine supports 2D and 3D acceleration through APIs.

**Software**
Developers can take advantage of the XCOM-9347’s power and performance when running major real-time operating systems (RTOS) or when deploying applications based on the low-cost, open-source Linux™ operating system.

**Features**
- PowerQUICC II Pro
- MPC8347E 400 MHz
- 32-bit,33/66MHz PCI
- Up to 2GB DDR2 SDRAM on SO-DIMM socket
- Up to 1GB NAND Flash
- 8MB Boot Flash
- 8kB NVRAM
- Two S-ATA ports
- 2D/3D graphic accelerator
- Two Gigabit Ethernet ports
- Two USB 2.0 Full-Speed ports
- Eight TTL GPIOs
- Real Time Clock
- Watchdog
- Temperature sensor

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Local Processor
- Freescale MPC8347EA
- 756 MIPS @ 400 MHz
- Security Engine

Memory
- up to 2 GByte DDR2 SDRAM
- on SO-DIMM socket
- Up to 1 GByte NAND Flash *
- 8 MByte Boot Flash
- 8 kByte NVRAM
- 8 kbit serial EEPROM

Communication ports
- 2 Gigabit Ethernet ports
- 2 USB 2.0 Full-Speed **
- 1 I2C bus
- 8 User GPIOs
- 2 RS-232 UARTs
- 1 JTAG debug interface

Graphic controller */**
- 2D/3D rendering engine
- XGA resolution 1280x1024
- 200 MHz RAMDAC
- 8 MB on chip memory
- 24-bit LVDS
- 18-bit LCD
- Analog RGB

Peripherals
- 2 S-ATA ports **
- 1 Real Time Clock
- 1 Watchdog
- 1 Temperature sensor
- 1 LBC connector

PCI Interface
- 32-bit, 33/66 MHz
- 3.3V environment

Environmental
- Commercial 0 to +55°C
- Extended -40 to +70°C
- Relative Humidity 0 to 95 %
- Altitude 0 to 3,000 m

Power Requirements
- +12V TBD
- +3.3V standby TBD

Mechanical
- Dimension 95 x 95 mm
- Vibration TBD
- Shock TBD
- MTBF TBD

* ordering option
** Not available in extended temperature grade

For ordering information, please visit our web site at www.actis-computer.com

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