



iWARE[®] ATM Module

Robust Protocol Implementations for the Most Demanding Environments

FEATURES

Complete, fully-integrated ATM stacks available from Interphase Professional Services

Supports the following

Adaptation Layers:

- ATM AAL0
- ATM AAL2
- ATM AAL5

Supports the following Classes of Service:

- ABR
- CBR
- UBR
- VBR

Enables fast and easy integration with a broad range of communications applications, including:

- 3G wireless UMTS Radio Network Controllers (RNCs)
- 3G wireless UMTS Node Bs
- ATM/Multiservice Gateways
- 3G wireless UMTS serving GPRS Support Nodes (SGSNs)
- 3G wireless UMTS Gateway GPRS Service Nodes (GGSNs)
- 3G wireless CDMA2000 Base Station Controllers (BSCs)
- 3G wireless CDMA2000 Base Transceiver Stations (BTSs)
- DSLAMs
- Media Gateways

Complete ATM protocol stacks available:

- Interphase ATM adaptation layers fully integrated with upper layers from Hughes Software Systems

As the leading provider of ATM-enabling products, Interphase has amassed over 150 man-years of ATM experience and owns eight patents from the development phase of the technology. As a principal member of the ATM Forum, Interphase chaired several committees and helped pioneer the ATM protocol.

The ATM protocol offers the ability to prioritize voice, video, and data traffic so communication can occur smoothly without delay. As an accepted standard in UMTS/ W-CDMA networks (European 3G wireless standard), ATM technology will be a part of the global network for years to come.

The Interphase iWARE[®] Asynchronous Transfer Mode (ATM) module provides robust tools for seamless portation to virtually any ATM application.

With robust features and ease of portability, the Interphase ATM software module can be ported and integrated to third-party upper layers by the Interphase Professional Services team.

The iWARE ATM module from Interphase provides the embedded firmware, sample programs, and extensive documentation to enable easy integration into any ATM environment, including 3G wireless, Internet access and Next Generation Networks (NGN). Interphase also offers complete, fully-integrated ATM stacks from third party protocol stack vendors, including full ATM stacks from Hughes Software Systems and Trillium..

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Additional Features

- Cell delineation
- VPI/VCI translation
- Handling of alarm and loop back OAM cells
- Traffic shaping

Interphase ATM Protocol Module API

The Interphase ATM protocol support covers AAL0, AAL2 and AAL5 Common Part Convergence Sublayer (CPCS) APIs.

Unrestricted allocation of up to 32 K VPI/VCI virtual connections is supported via the equipped external CAM. Restricted allocation of up to 64 K VPI/VCI numbers is supported via an internal Address Compression Mechanism. The ATM firmware offers the following additional features:

- ATM (AAL0, AAL2, AAL5) interface
- OAM support
- CBR, VBR, ABR (ATM Forum UNI 4.0), and UBR service classes
- ATM MIB (RFC 1695) support

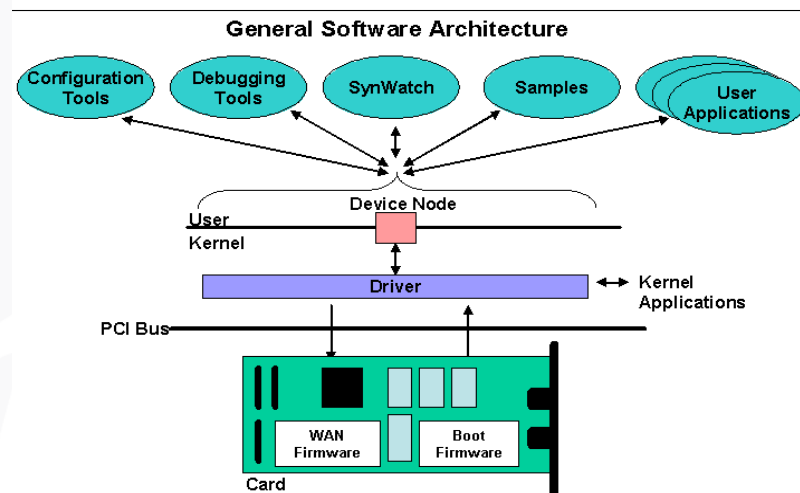
iWARE Software Development Suite

The ATM protocol module runs with the iWARE Software Development Suite, which includes:

- Embedded Firmware (Executed by the on-board PowerQUICC™ processor)
- Base Drivers for each supported operating system (Executed by the host processor)
- Configuration and diagnostic utilities
- Sample programs
- Extensive documentation for each component of the suite

For a detailed description of the kit contents, refer to the iWARE Software Development Suite data sheet.

Interphase also offers complete upper layers of the ATM protocol from third party stack vendors, which are fully integrated with Interphase lower layers. For details, please refer to documentation on Interphase Professional Services.





iWARE ATM Module

Configuration Options

		4538	4539	4539F	5539F
Solaris	AAL2-LF		■ (902)	■ (904)	■ (902)
	AAL5-LF		■ (902)	■ (904)	■ (902)
Linux Intel	AAL2-LF	■ (908)	■ (906)	■ (903)	■ (907)
	AAL5-LF	■ (908)	■ (906)	■ (903)	■ (907)
Linux PowerPC	AAL2-LF	■ (909)	■ (907)	■ (902)	■ (906)
	AAL5-LF	■ (909)	■ (907)	■ (902)	■ (906)

Notes:

Solaris = Solaris OS (XXX = *part 1* of order number*)

Linux Intel = Linux OS on an Intel processor (XXX = *part 1* of order number*)

Linux PowerPC = Linux OS on a PowerPC processor (XXX = *part 1* of order number*)

AAL2-LF = ATM AAL2 (Voice Adaptation Layer) Protocol Package (AAL2-LF = *part 2* of order number*)

AAL5-LF = ATM AAL5 (Data Adaptation Layer) Protocol Package (AAL5-LF = *part 2* of order number*)

*Order Number = Card Number-*part 1*-*part 2*.

For example, the order number for Solaris software for AAL2 Protocol Package on a 4539 card = 4539-902-AAL2-LF

Additional packages may be under development. Please contact your Interphase representative if you do not see the package you need.

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