

Corporate Overview



March, 2010



- **Wintegra is a private, fabless semiconductor company**
- **Founded in 2000, became profitable in 2005**
- **Headquartered in Austin, TX**
 - 160 employees; 120 in R&D and Operations in Israel
 - Additional offices and representatives worldwide
- **Provider of WinPath Communications and Network Processors and Production-level Protocol Software**
- **Sampled third-generation WinPath3 in Q4 2009**
- **Target market is Carrier Equipment requiring up to 15Mpps, full-duplex, complex interworking**
- **Products supplied for IP-based systems as well as SDH- and TDM-based systems**
- **Strong player in 60% Y-on-Y Wireless Backhaul growth**



- **Wintegra's growth is driven by two long-term market requirements**
 - Growth of Mobile Data including Multimedia
 - Growth of Internet Data and Multimedia
- **Wintegra provides communications processing silicon and software into three Carrier Equipment markets**
 - **Mobile 3G and 4G Base Stations**
 - Transport and Access for 3G, WiMAX and LTE
 - **Mobile Backhaul Networking**
 - Wireline and Fixed Wireless Access (Microwave)
 - **Broadband Access for VDSL and PON**



Growth Markets for Carrier Equipment

Mobile Backhaul Networking

Pseudo Wire Emulation

Inverse Multiplexing

Channelized Optical Carriers

3G and 4G LTE / WiMAX Base Stations

LTE and WiMAX Media Access

3G, LTE and WiMAX Transport

Security Processing

VDSL and PON Broadband Access

TR101 Compliant

1G, 2.5G, 10G Backplanes

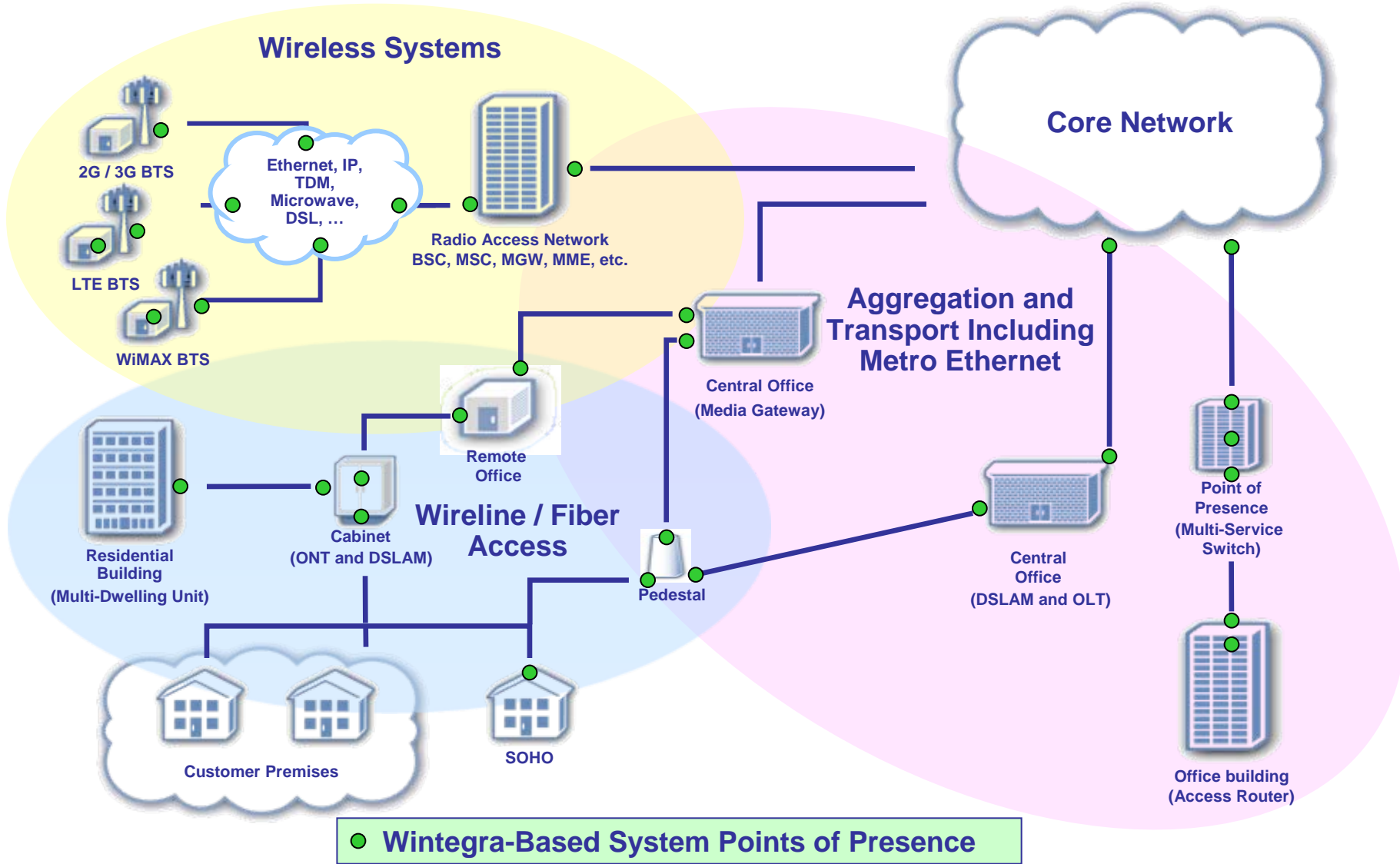
G.999.1 PHY Support

Market-Specific Wintegra Technologies

Wintegra Foundational Technology:

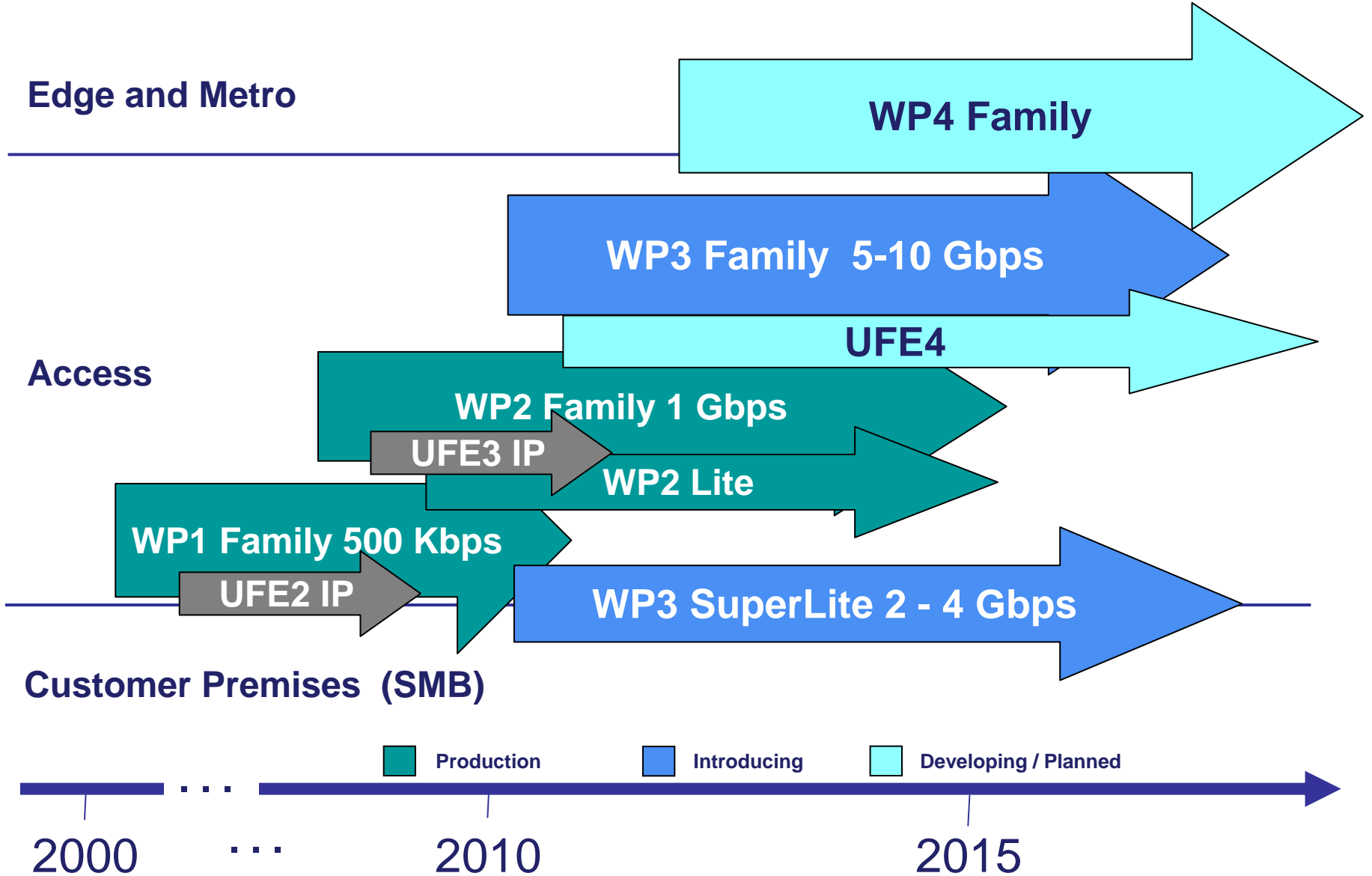
Carrier Class IP and MPLS Processing - 10M / 100M / 1G / 10G

Multimedia: Straining the Access Network



● Wintegra-Based System Points of Presence

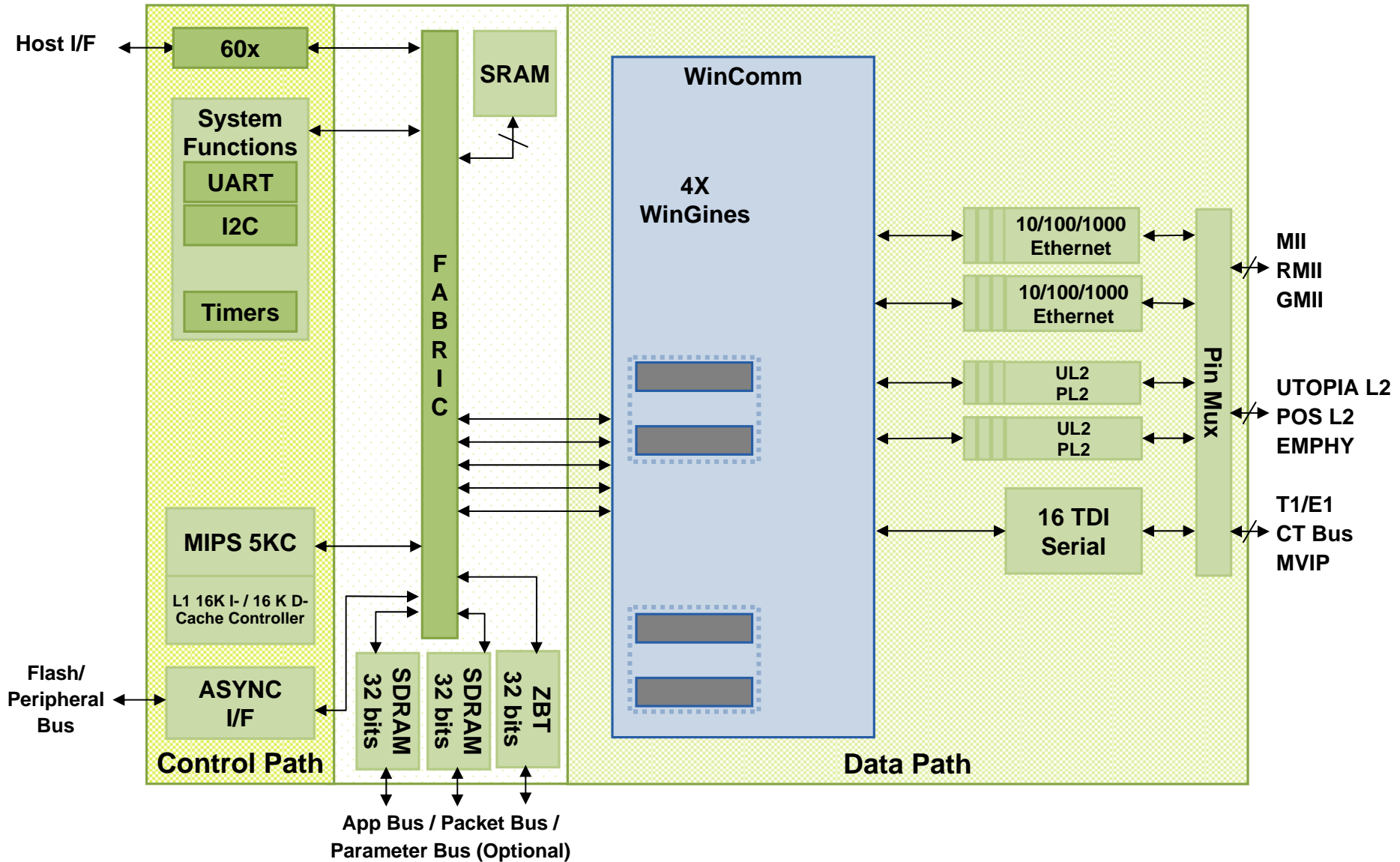
WinPath Silicon Roadmap



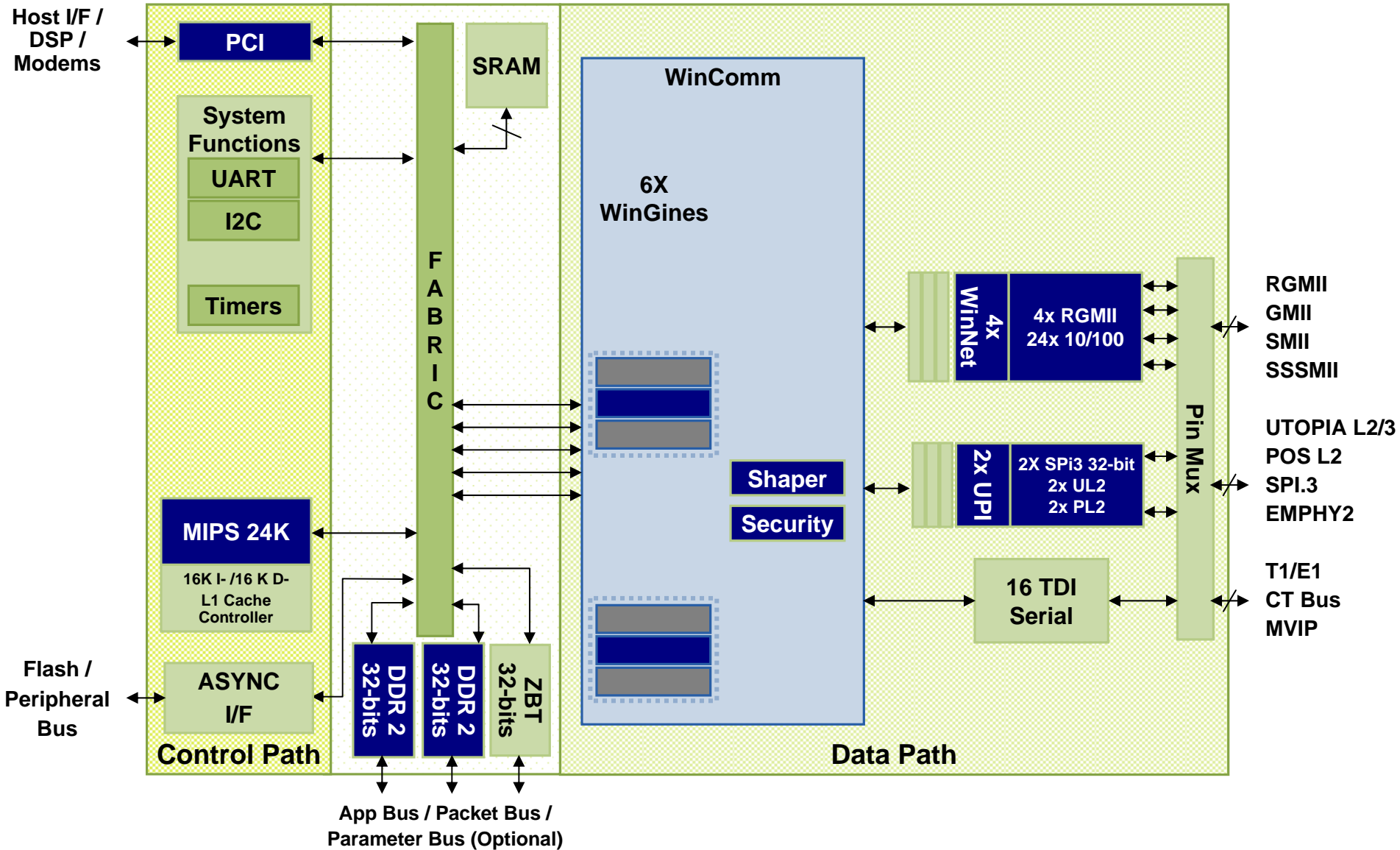


- **Wintegra's WinPath processors serve Network and Communications Processor applications**
- **Wintegra's WinPath are Heterogeneous Multiprocessor-based System Platforms**
 - Multi-threaded, Multi-Processing RISC data path processing
 - Application and Control Processing through on-chip MIPS ISA Host RISC processors or external Host processors
- **Wintegra pioneered delivery of production-ready Communications Software and Processors since 2000**
 - Wintegra supports well over 60 different communications protocols in flexible interworking configurations
 - All code is compiled and delivered as object or optional source
- **Performance enhancements have included:**
 - Moving software to hardware accelerators
 - Process and I/O enhancements

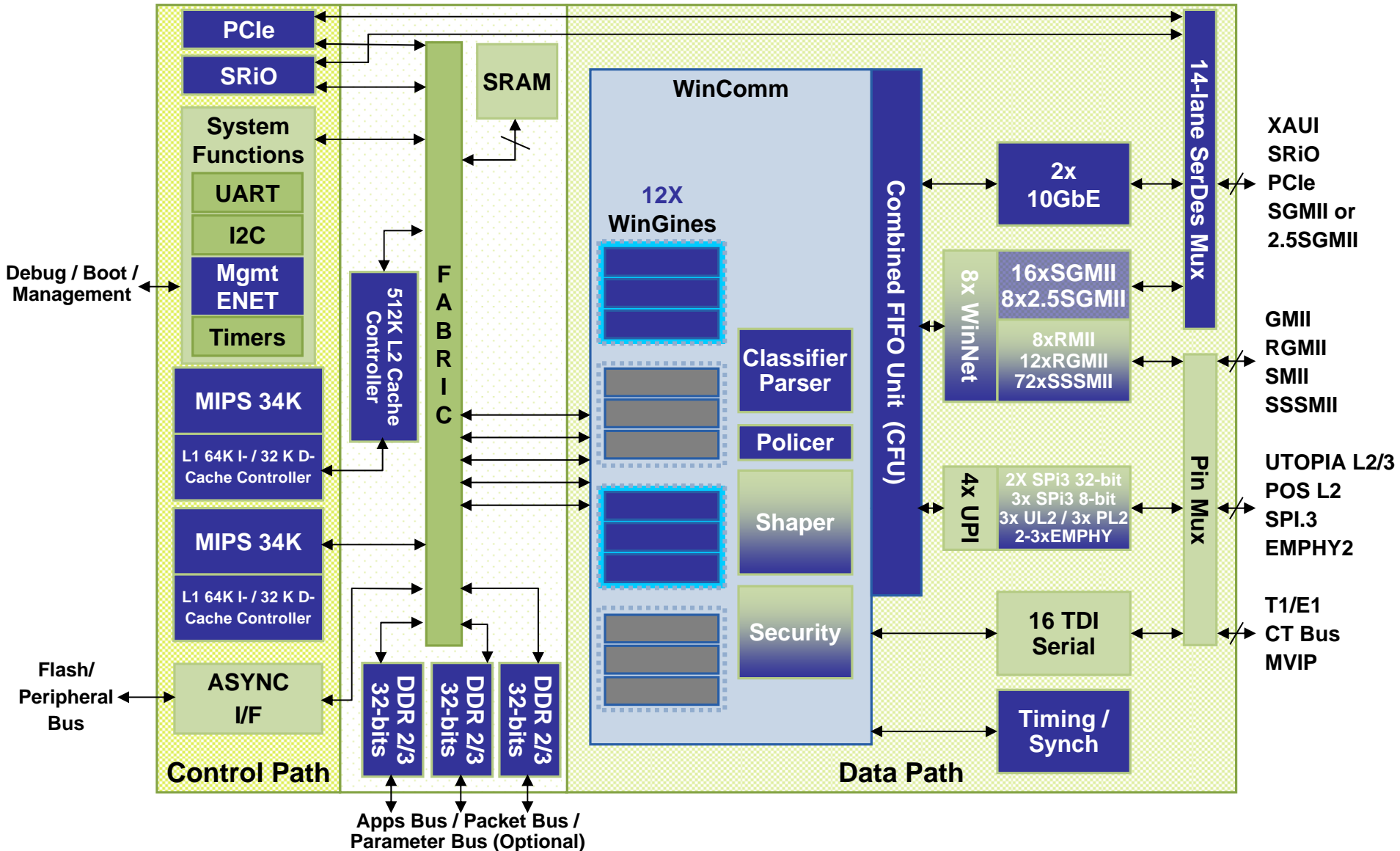
WP1 - ~1Mpps Access Processor



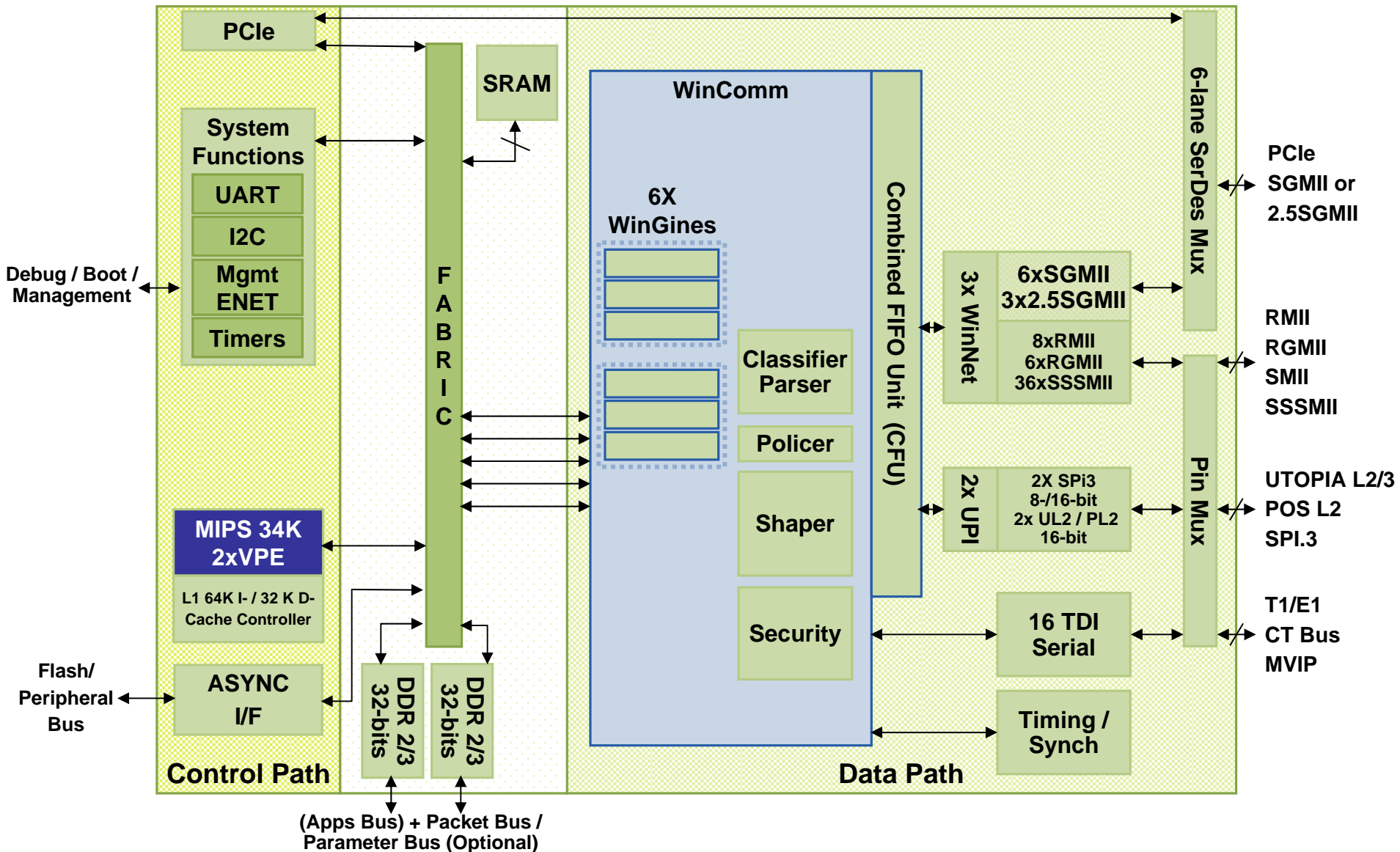
WP2 - ~3Mpps Access Processor



WP3 - ~15Mpps Access Processor



WP3-SL - ~6Mpps Access Processor



Our Unique Software Solution

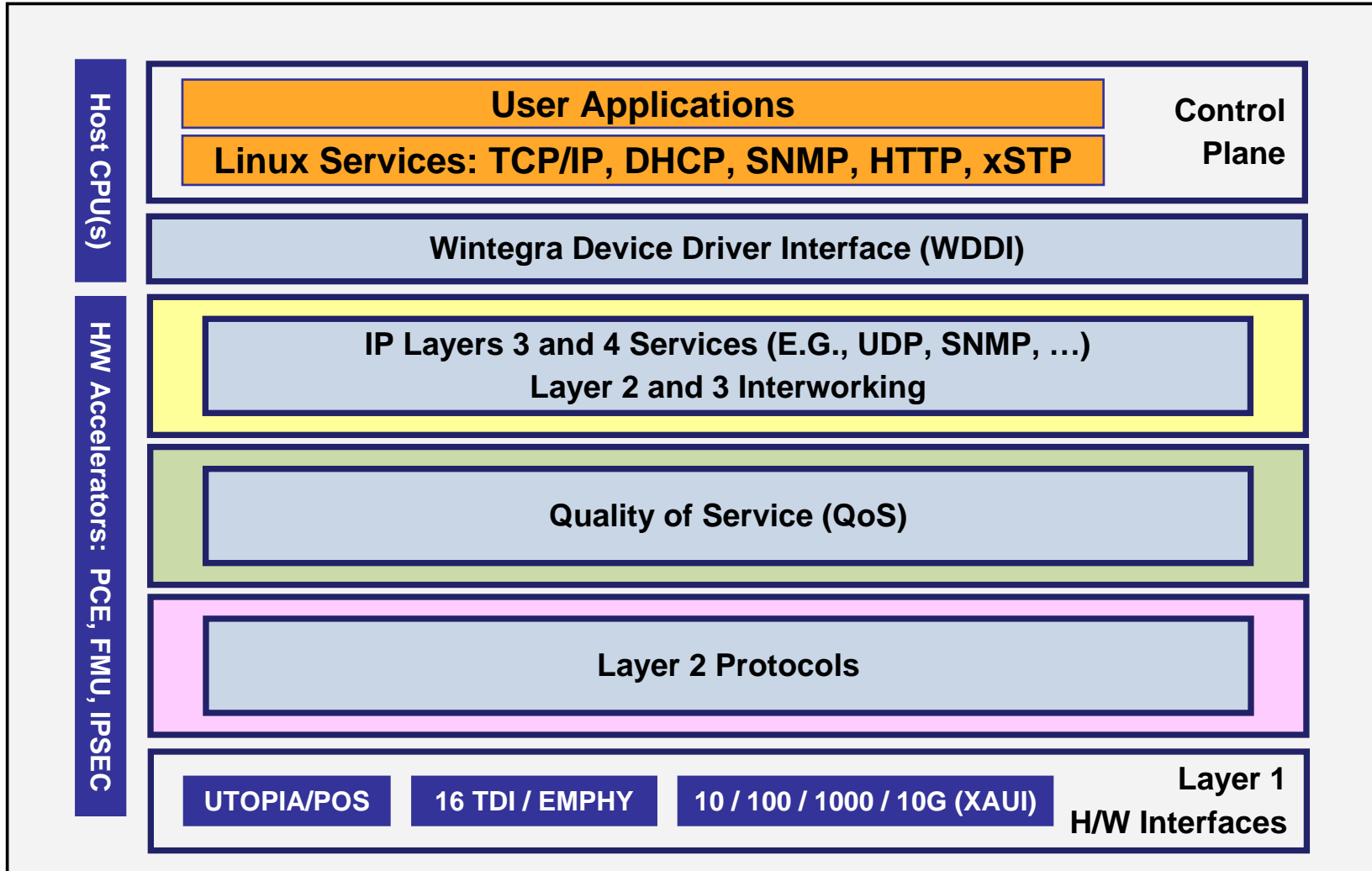


- **Wintegra alone has, since inception, focused on providing Software and Processors packaged as configurable System Solutions**
- **Two-thirds of our engineering team is focused on software**
 - **New protocol and interworking support packages for common, difficult networking problems are continuously being added**
- **Our unique software offering**
 - **Supports 60+ communications protocols**
 - **Is factory tested using over 5,000 release tests**
 - **Is 100% compiled and developed as production quality**
 - **Is provided royalty free with WinPath Processors**
- **Our modular software supports a wide system requirements range**
 - **Our tools allow customers to rapidly incorporate customizations**
 - **Our partners and internal support team can help system customization**

Our Software enables rapid deployment of our Customers' Systems

- **The next slides show Wintegra software for example systems**

Wintegra's Software Runtime Environment





Layer 2 and 3 Interworking

MPLS	Bridging	PB (VLAN Stacking)
PBB (MAC in MAC)	IPv4 Routing	IPv6 Routing
Packet / Switching	Fast Re-route	Dynamic Field Classifier
PPPoA / PPPoE	IEEE 1588v2	Synchronous Ethernet
NAT / PAT	Multicast	PWE3
GRE	GTP	L2TP
Programmable Header Manipulation (Remarking, Editing)		

Quality of Service (QoS)

Ethernet OAM	BFD / CCV	Packet Classification
Per-flow Queuing	Weighted Fair Queuing	Hierarchical Shaping
Packet Policing	2 Rate – 3 Color Marking	Host Termination
Tail Drop	WRED	Statistics / Billing

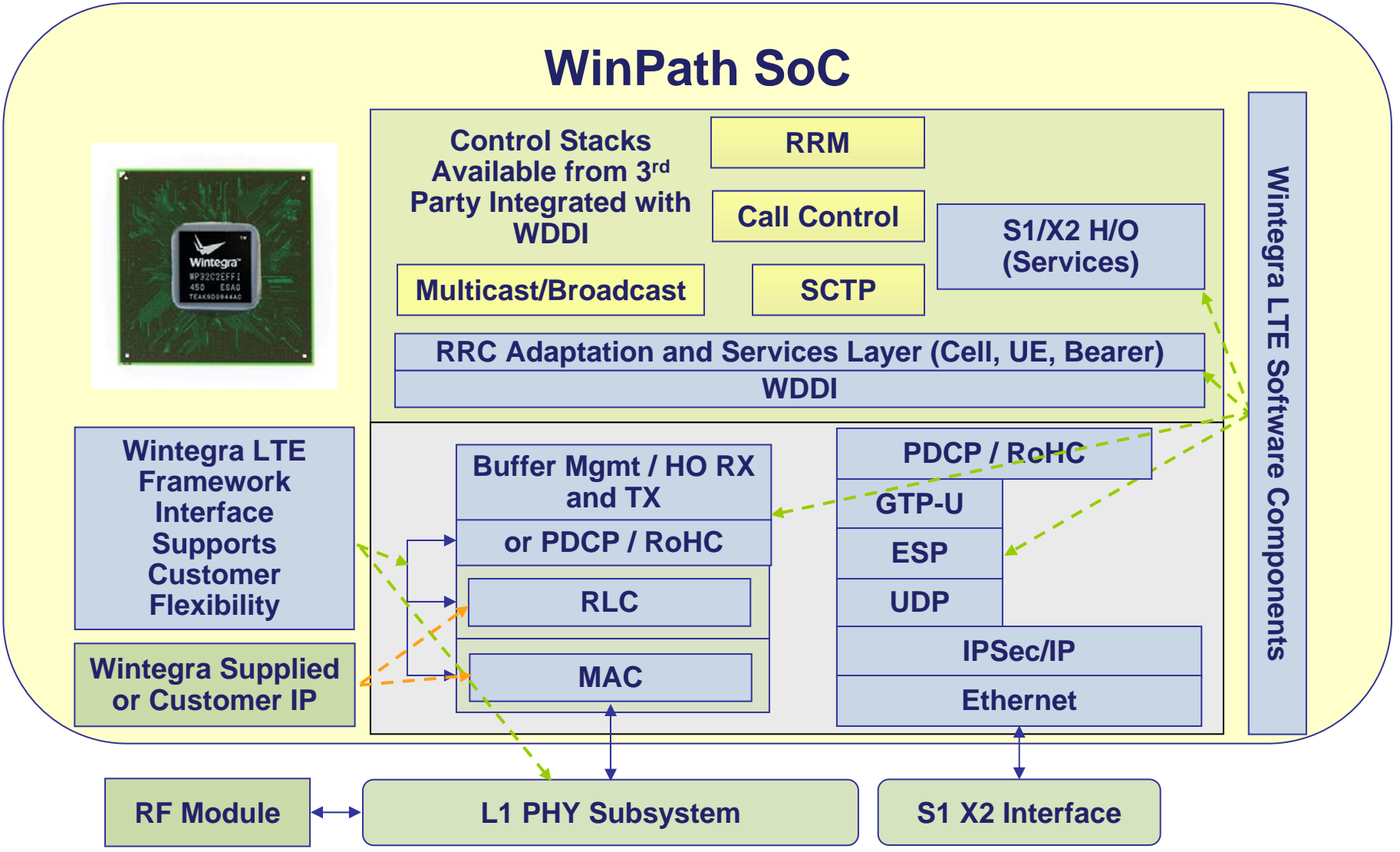
Layer 2 Protocols

Ethernet	PWE3 - CESoPSN	PWE3 - SATOP
MPoTDM (IMA, MC / ML-PPP, ATM, PPP / HDLC)		
RFC2507 / 8 / 9	EFM G.Bond	IEEE802.3ad LAG

Wintegra S/W and WinPath - LTE Example



WinPath SoC





- **Wintegra supports IP interworking**
 - Wintegra also supports the complex interworking of SDH and TDM required in the transition to all IP networks
- **Wintegra sub-systems are configurable for a wide range of complex interworking systems**
- **Wintegra's WinPath Processors and Protocol Software are used in over 250 active designs worldwide**
 - Designs active at all Tier 1 and most Tier 2 Carrier Providers
- **Wintegra's Heterogeneous Multi-Processor systems provide high throughput with high QoS**
- **Wintegra's Data Path Software can also be licensed as source to meet unique deployment requirements**
 - Wintegra's software is continually refreshed for common requirements
- **Wintegra and Wintegra's Partners can support custom development requests for software and systems**