

XipLink

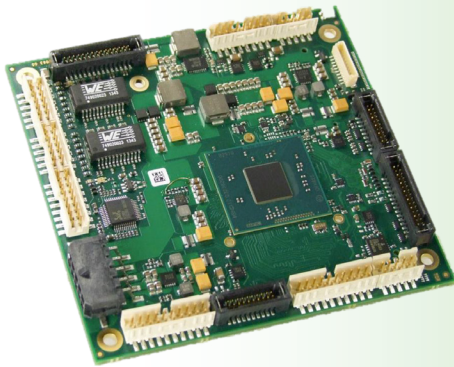
XS-Specialty Product

XA - Appliances

XO - Options

XS - Specialty Product

XE - Embedded XipOS



XS-104 Series Single Board Computer

Optimizer on a Single Board Computer *Fast hardware integration in modular systems*

The XS-104 is a full function wireless optimizer on a single board computer (SBC) based on the PC-104 hardware form-factor. It comes pre-loaded with the latest XipLink Operating System (XipOS) for rapid integration of wireless optimization into modular communication systems.

The XS-104 allows system integrators to quickly add CPU and memory with the features of XipOS to any modular communication system. Delivering 8 Mbps or 16 Mbps of optimized capacity, typical users gain 2X to 10X the existing bandwidth for all TCP applications.

Some examples of XS-104 integration include:

- Man-portable systems for secure and un-secure users
- Aviation modems eliminates recertification
- Voice / Data optimization systems
- Base Station Radio subsystems

In terrestrial networks, the XS-104 can be quickly integrated in-line between base station radios and back-haul radios, delivering increased capacity across these critical links.

XS-104 XipOS Features

SCPS-TP Protocol Acceleration

- Native SCPS-TP
- SNACK / ACK Frequency Reduction

Advanced Data Compression

- XipOS streaming data compression

Web Page Optimization

- TCP Fast-Start

XipLink Transport Controls (XTC)

- Dynamic Rate Control
- Fixed Rate Control
- Enhanced TCP
- Delay Based Rate Control

Operates over any Wireless Network

- MSS / Star / Hub and Spoke / Mesh
- Point to Point and Point-to-Multipoint

XS-104(C) XipOS Features

- All features of the XS-104, plus
- High speed low-latency Byte Caching
- High capacity disk-based Web Caching

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XS-104 Single Board Computer

XipLink Operating System (XipOS)



**Man-Portable Tactical
Communications Kits**



Mobile Routers of all types
Aviation
Maritime
Vehicular

XipLink Operating System (XipOS) delivers maximum bandwidth across wireless communication links using protocol acceleration, streaming data compression and Internet optimizations packaged on a pre-loaded PC-104 single board computer for rapid hardware integration.

XipOS is based on extensions to the industry standard Space Communications Protocol Specification (SCPS), a set of recommendations that accommodate proprietary vendor techniques for increasing link capacity while ensuring interoperability and transparent optimization for all TCP applications.

Remote user sessions are transparently split, or proxied, with new sessions opened across the link using protocol acceleration and PPP streaming data compression to overcome common wireless issues:

Varying latency (delay) because of long links and users roaming

High bit error rates because of constantly changing RF link conditions

Link asymmetry because of smaller, lower power remote radios

XipLink Operating System (XipOS)

Easy to Deploy and Manage

- Completely transparent to users
- Layer 2 - Bridge Mode
- Layer 3 - Router Mode

Optimize any Wireless Network

- MSS Networks - Inmarsat, Iridium, Thuraya
- VSAT - Star Topologies
- Mesh networks of any size
- Dedicated SCPC links
- Terrestrial Point to Point links
- Terrestrial Point to Multi-Point links

XipLink Realtime (XRT)

- Reduces Packets per Second
- Bandwidth reduction for VoIP, Skype & small packets

Advanced QoS

- Hierarchical QoS
- Traffic Shaping

Advanced Features

- Transparent VLAN Support
- GRE Tunnel Traffic Optimization

Flexible Deployment Options

- XA-Appliances - Scalable and Redundant
- XS-Specialty Products
 - XS-104 Single Board Computer
- XV-Virtual Machine Based XipOS

Available Models

XS-104 Model	Aggregate Throughput	Sessions	Caching
XS-104/2000	8 Mbps	2000	-
XS-104/2000C	8 Mbps	2000	Byte/Web
XS-104/4000	16 Mbps	4000	-
XS-104/4000C	16 Mbps	4000	Byte/Web

Hardware Specifications

Dimensions	96mm x 90mm
Weight (XS-104, XS-104C)	200 gms, 250 gms
Power	5V DC, 3A
Operating Temp.	0°C to 60°C
High Temp. Option	-40°C to +85°C
Conformal Coating Option	✓
Total Height of Board and Heat Sink	20.10 mm



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