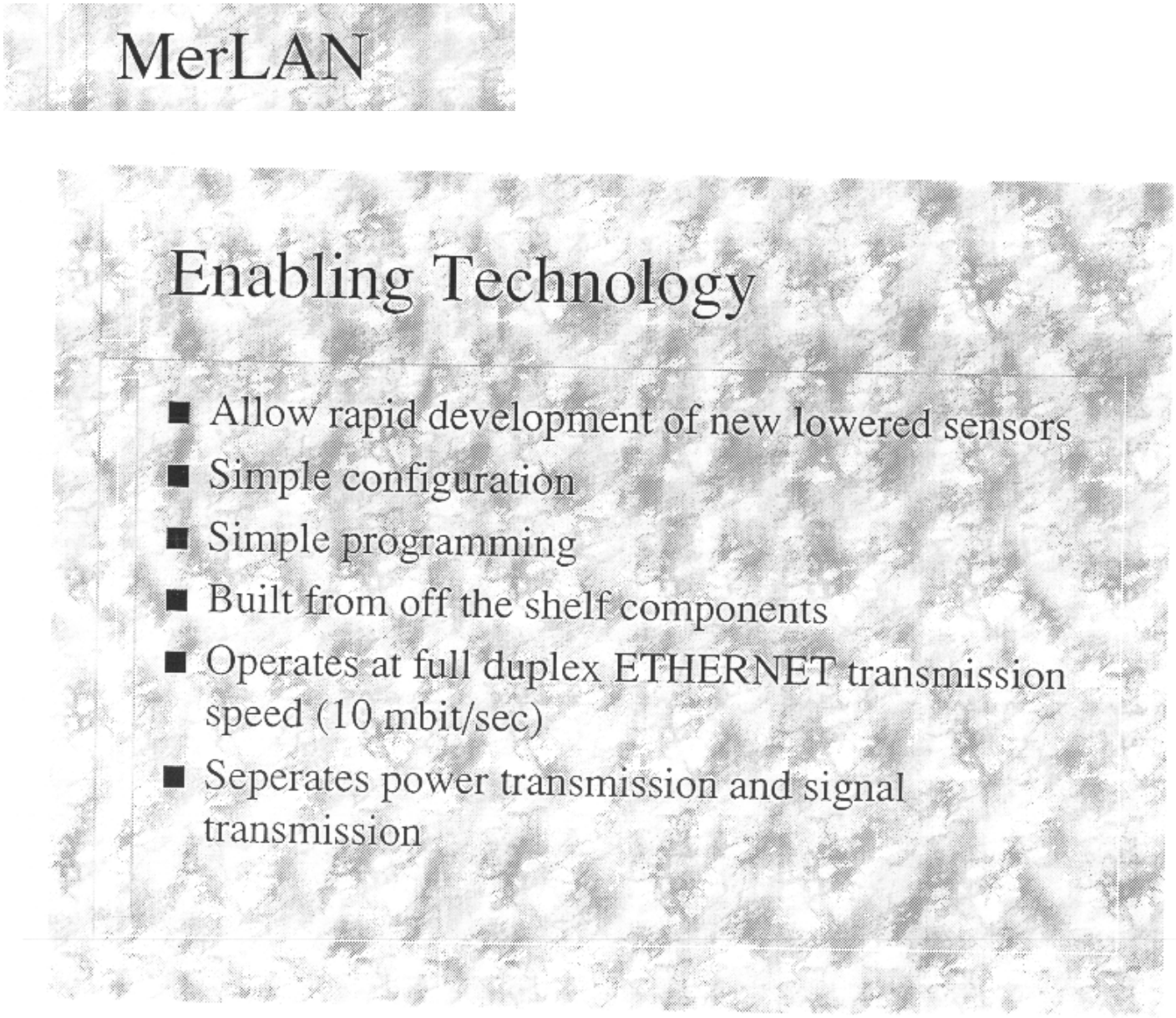
APPENDIX IV

MERLAN PRESENTATION



PC/104 Standard

- Adaption of regular PC bus (IEEE P996)
- Compact Form-Factor
  - Size reduces to 3.6 by 3.8 inches
- Self-stacking
  - Can eliminate cost and bulk of backplanes and card cages
  - Pin-and Socket connectors
- Relaxed bus drive (4 mA.)
  - Lowers power consumption (1-2 watts per module) and minimizes component count

The PC 104 Standard

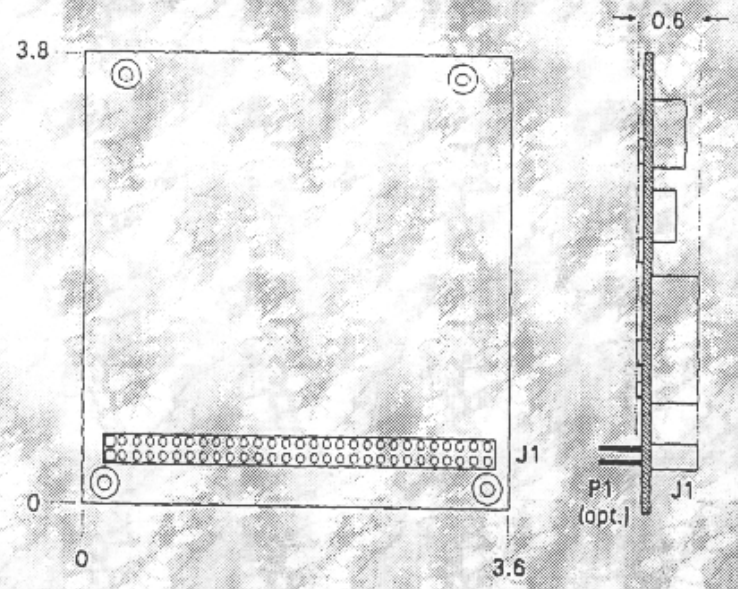
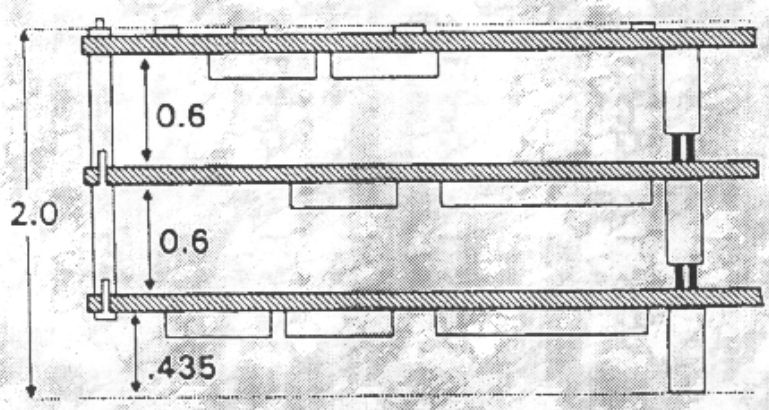


Figure 1. Basic Mechanical Dimensions (8-bit Version)



Non-stackthrough Module

Stackthrough Module

Stackthrough Module

Figure 2. Standalone Module Stacks

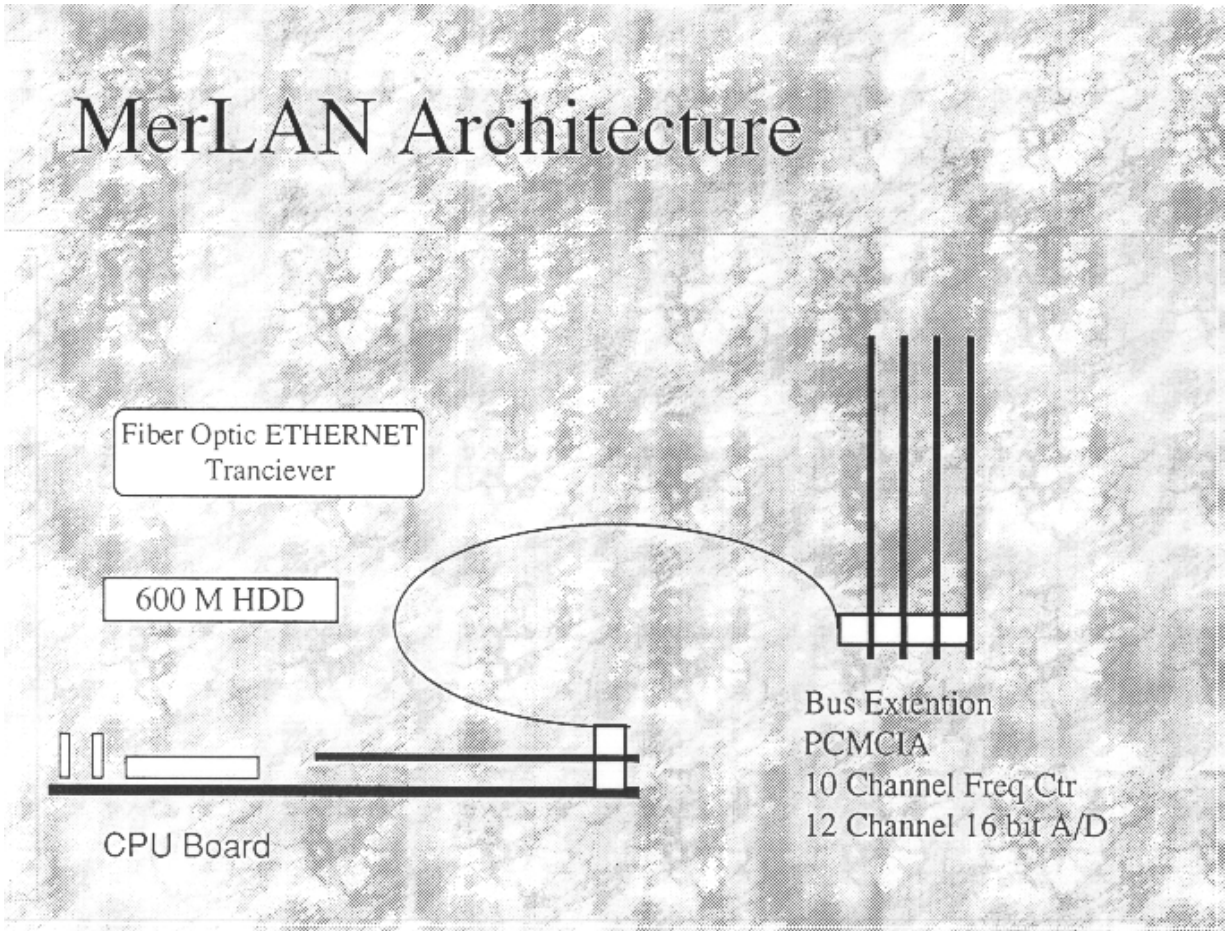
Two Different Types of PC/104 Boards

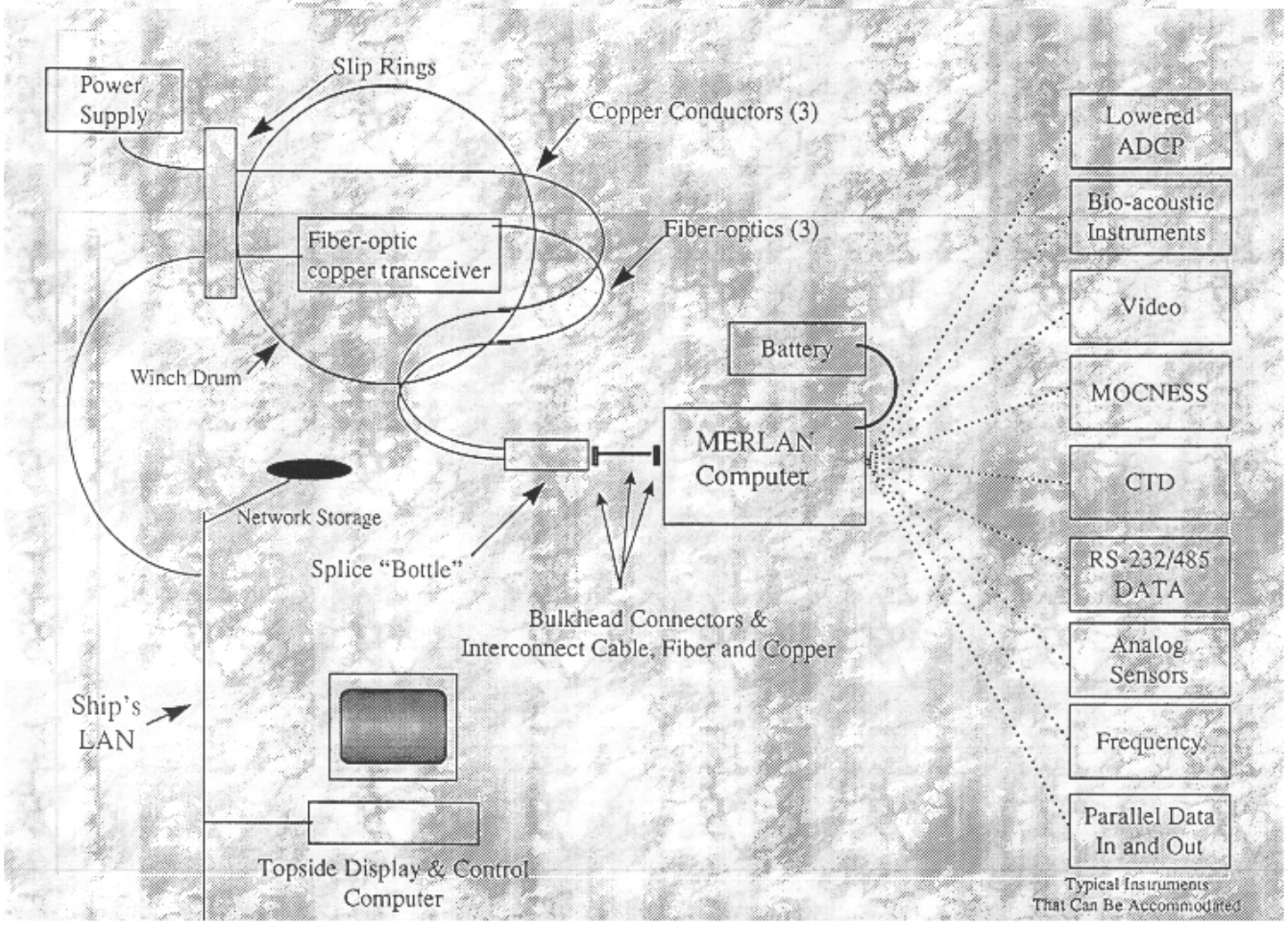
- PC/104 Form-Factor
  - Fits dimensional 3.8" x 3.6" criteria
- PC/104 Expandable
  - Allows PC/104 Form-Factor boards to be pluged into it

Typical PC/104 Boards Available

- CPU's
  - 386
  - 486
  - 586 (expandable only)
- Network Interfaces
- Modems
- Motor Controllers
- PCMCIA
- Serial Port Expansion
- SCSI Interfaces
- A/Ds
  - 12 bit 16 channel
  - 16 bit 16 channel
  - 22 bit single channel
- Counter/Timmers
- Digital Signal Processing
- Video Capture
- Syncro/Resolver
- Speech & Sound Modules

MerLAN Architecture





Operating System Software

- Windows 95*
  - Remotly controlled by PC Anywhere
- Windows NT
  - Remotly controlled by PC Anywhere or X-Windows
- UNIX
  - Remotely controlled by X-Windows

Acquisition Software

- LabTech CONTROL*
- LabView
- Control Point