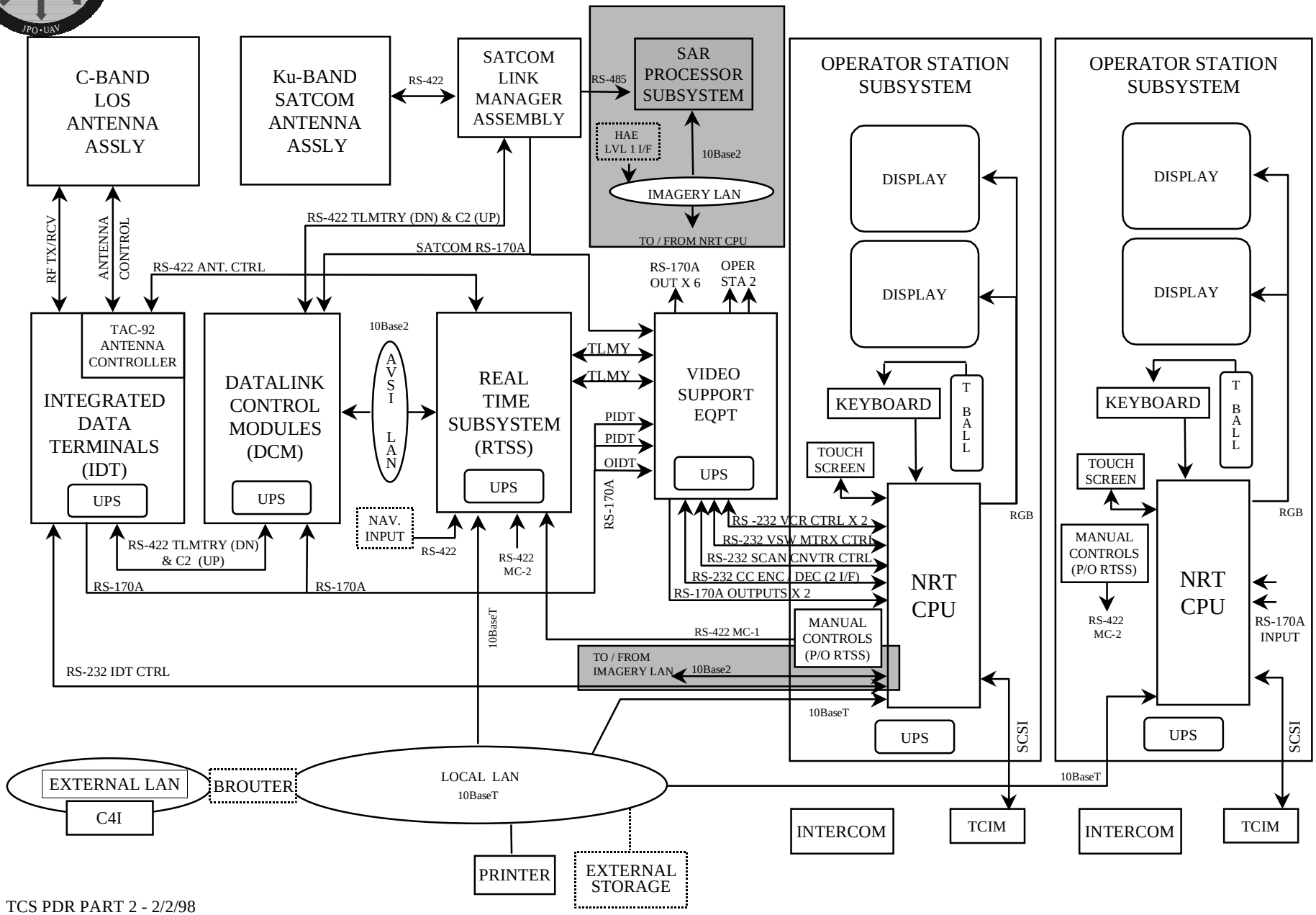
SAR PROCESSING SUBSYTEM

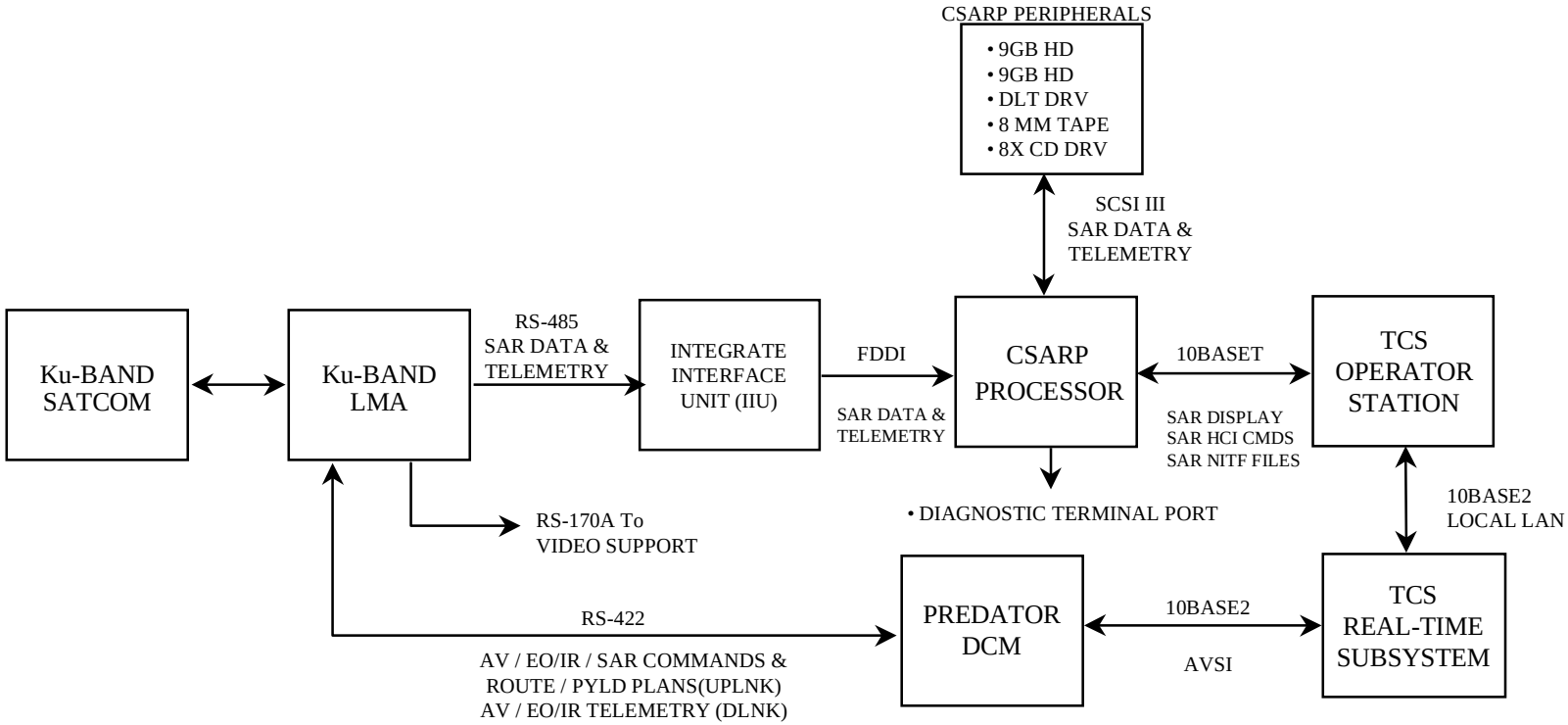
TCS SYSTEM HARDWARE DESIGN



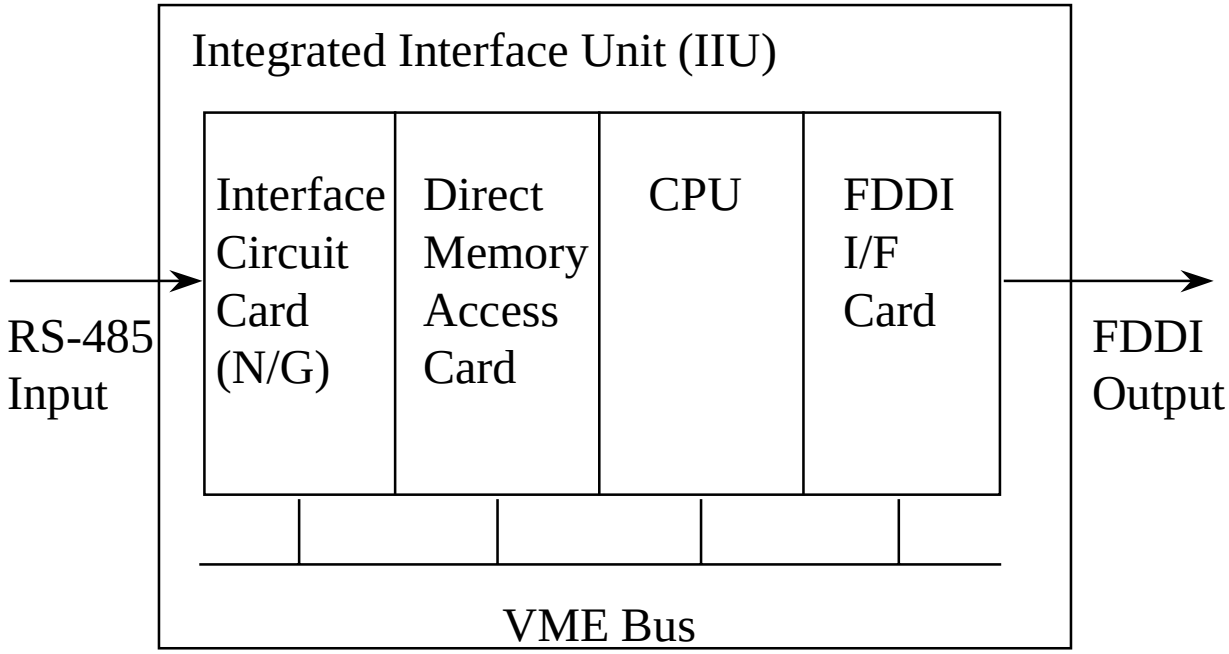
SAR PROCESSING SUBSYTEM

- SAR PROCESSOR
  - PROCESS RAW SAR DATA
  - DISPLAY ON OPERATOR STATION
  - RECORD AND STORE SAR DATA
  - SAR PAYLOAD CONTROL
  - SAR IMAGERY VIEWER
  - DATA ACQUISITION, STORAGE, RETRIEVAL
  - GENERATE SAR NITF FILES
  - TRANSFER SAR NITF TO TCS CSCI FOR SUBSEQUENT IMAGERY EXPLOITATION BY C4I SYSTEMS
- EO/IR
  - CONFIGURATION ELEMENT FOR FUTURE DIGITAL EO/IR

SAR SUBSYSTEM BLOCK DIAGRAM



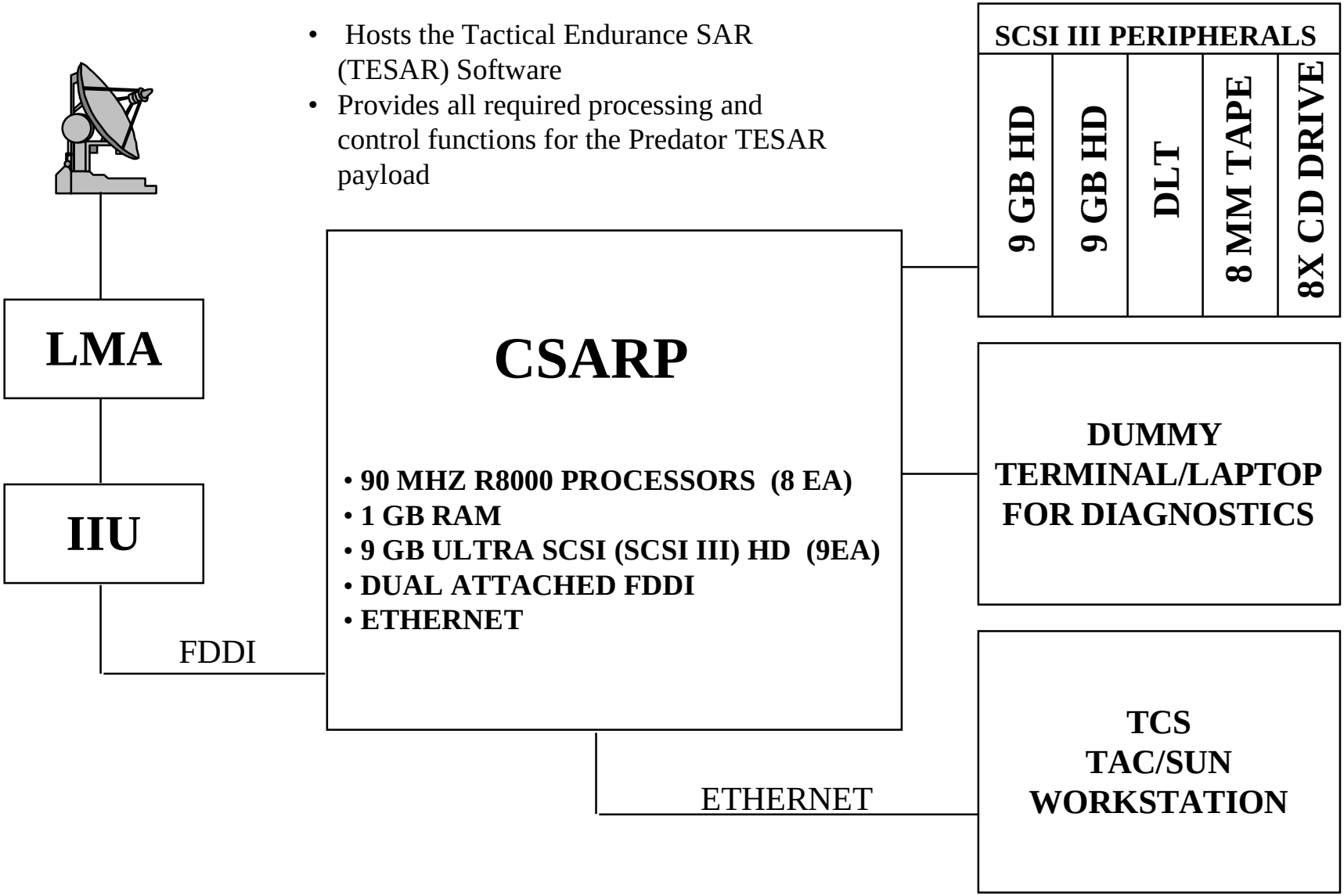
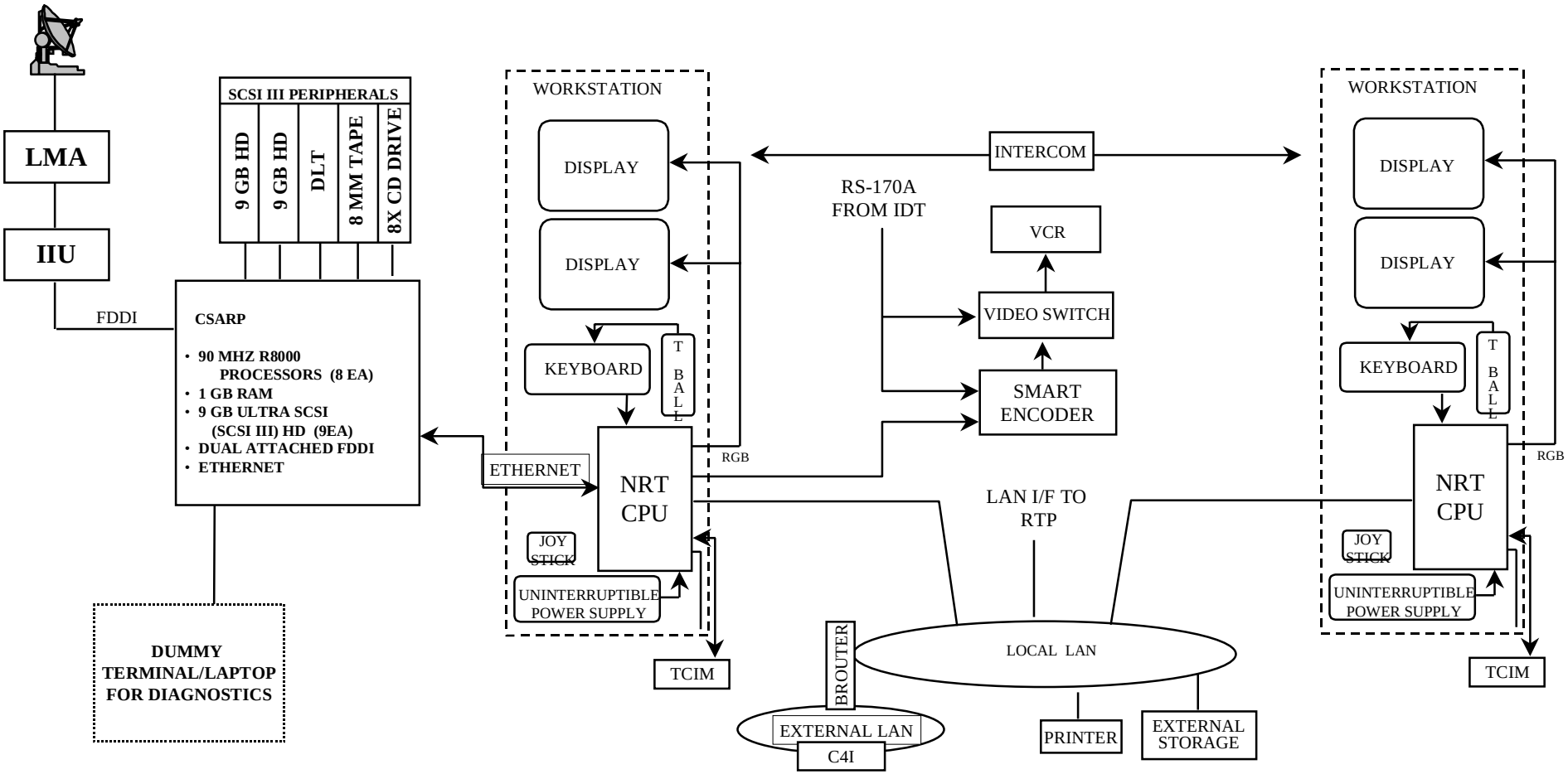
SAR INTEGRATED INTERFACE UNIT



- PROVIDES CONVERSION OF SAR IMAGE DATA AND SAR SYSTEM TELEMENTRY FROM RS-485 INTERFACE FORMAT TO FIBER DISTRIBUTED DATA INTERFCAE (FDDI) FORMAT

COMMON SAR PROCESSOR (CSARP) DIAGRAM

- Hosts the Tactical Endurance SAR (TESAR) Software
- Provides all required processing and control functions for the Predator TESAR payload



OPERATOR STATION (REPRESENTATIVE)