



RFP: ETHERNET CONTROLLER

- 10/100 base-T Ethernet connectivity
- Compliant with **LXI™** standard
- IVI compliant drivers
- Web browser control
- Controls up to 95 assets
- Supports VXI II Discovery
- Modular
- C.O.T.s
- Low C.O.O.

PRODUCT OVERVIEW

The **LXI™** compliant RFP LAN Controller runs on standard Ethernet technology designed to provide modularity, flexibility and performance. The RFP controller's compact, flexible package with high-speed I/O and 16-bit precision, meets the needs of R&D and manufacturing engineers delivering electronics for the aerospace/defense, automotive, industrial and consumer electronics markets.

SYSTEM OVERVIEW

RFP is a system that economically simplifies test-system assembly, programming, and operation. It is designed to provide load, bias and stimulus power for both ATE and production test applications. RFP is contained in 7-inch-high (4 EIA units) chassis. Each chassis contains 12-asset slots, which can accept different combinations of controller, DC power, AC power, load and custom modules.

BENEFITS

- Reduced Cost of Ownership (COO)
 - Compliant with **LXI™** standard for assured interoperability and ease of integration
 - IVI compliant drivers
 - TCP/IP network protocols
 - VXI II Discovery
 - Dynamic Address Assignment
 - Duplicate IP address detection
 - Auto MDIX
 - Web browser control of up to 95 assets through one IP address
 - 10/100 base-T Ethernet connectivity
- Fast deterministic control of assets
 - High speed bus protocol
- Secure
 - Built-in User ID and password security features
- 16-bit remote programming and readback accuracy

SPECIFICATIONS

Modules Controlled

Modules in RFP Mainframe(s)
Select other Elgar power supplies

Command Language

SCPI Standard 1997 command language via
downloadable IVI Drivers

Controller Command Communications

SCPI commands parsed into binary per Elgar
proprietary EIB2 protocol via a high speed
proprietary bus

Control Interface

To host: Ethernet
To Module: Proprietary high speed bus
protocol

Front Panel Power Controls

Standby switch: turns on/off rectifiers in all
modules allowing removal.

Front Panel Indicators

Power (LED, green)
Fault (LED, red)
Serial port connect (LED, green)
Network link integrity (LED, green)

Front Panel Connectors

Interface Connector: Subminiature D - Female
LAN: Ruggedized RJ45

Input

Via RFP Chassis
Hold-up time: 10ms

Physical

Size: 1 RFP chassis width
1.4" (35.6mm) W x 6.75"
(171.5mm) H x 15" (381 mm) D

Weight: 2.4 lbs

Environmental

Temp. Range, Operating: -10° C to 55° C
Temp. Range, Storage: -40° C to 70 °C
Humidity, Operating: 95%
Altitude, Operating: up to 15,000 ft
Vib. and Shock: Class 3 Mil-PRF-28800F

Regulatory

Certified to UL 61010-1, CSA C22.2 No.
61010.1 and IEC/EN 61010-1.
Compliance with EN61326 and FCC 21 CFR,
Subpart J
CE Mark is to EMC and LVD

All specifications: 25° ± 5°C.
**All specifications are subject to change
without prior notification**