

# DX-RFC4 Synchronous Controller



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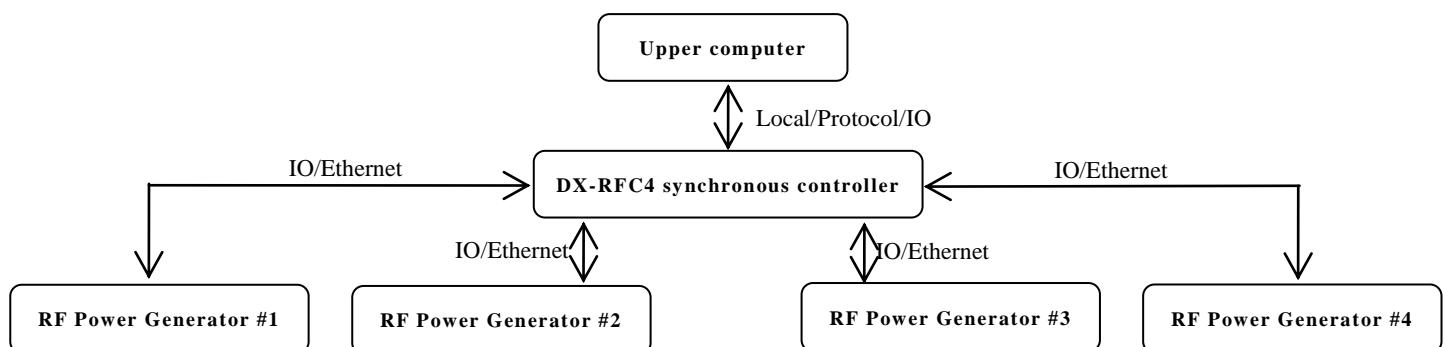
## Product Overview

The DX-RFC4 synchronous controller is an advanced auxiliary device of RF Power Generator to control the output synchronization when multiple RF power supplies involved. It supports multiple control modes. The host can control multiple RF power supplies by only controlling the synchronous controller. It can monitor the operation status of the RF Power Generator in real time, and when one of the RF power supplies fails to start protection, other power supplies will respond synchronously to ensure the stable operation of the entire system.

## Product Features

- **Support synchronous control of max 4 RF power supplies**
- **Support IO/NET control modes**
- **Support 2 power stepping modes: fixed value and percentage**
- **Support custom RF power increasing time**
- **Support up to 4 CEX synchronization signal outputs**
- **Support host DB25-- IO control**
- **Support RS485 Modbus communication protocol for the host**
- **Support LCD panel control**
- **Support interlocking protection and matching detection function**

## System Diagram



## Tech Parameters

| Items                                | Tech Parameters                             |
|--------------------------------------|---------------------------------------------|
| Mains                                | Single Phase 220V AC $\pm 10\%$ , 50Hz/60Hz |
| Control number of RF Power Generator | 1-4 sets                                    |
| Control modes for RF Power Generator | IO/Ethernet                                 |
| Communication mode to upper computer | Local/Protocol/IO                           |
| Matching detection accuracy          | 1% - 5%                                     |
| Communication interface              | RS485, Standard DB9 (Female)                |
| User port                            | Standard DB25 (Female)                      |
| CEX Out                              | Standard SMA (Female)                       |
| Ethernet                             | RJ45 port                                   |



## Semiconductor

- Wafer Cleaning
- Film Deposition
- PVD/PECVD/ALD
- Magnetron Sputtering
- Ion Beam Source
- Ion Etching
- ...

## Industrial

- LED
- Solar Photovoltaic
- Crystalline Silicon Coating
- Wear-protection layer
- ...

## Medical

- Plasma Disinfection
- Cancer Treatment
- MRI
- RF Cosmetology
- ...

