

Foxboro - Foxboro DCS**RH924YA**

FCP280 Field Control Processor

Verified model data

Manufacturer	Foxboro
Part number	RH924YA
Functional designation	FCP280
Processor	ARM system-on-chip
Configuration	Single module or fault-tolerant pair
Module dimensions	5.18 × 10.5 × 14.7 cm (W × H × D)
Module net weight	0.8 kg maximum, single non-fault-tolerant module

Selection summary

Foxboro RH924YA executes process control blocks and communicates with supported field modules over four HDLC PIO channels.

When paired on the appropriate baseplate, two RH924YA modules continuously synchronize and compare control activity to provide fault-tolerant operation.

The module is used in new or migrated Foxboro DCS control stations where processor performance, distributed I/O and controlled redundancy are required.

APTER POWER

Foxboro - Foxboro DCS**RH924YA****Additional verified data****Control Architecture**

- The processor executes regulatory, logic, timing and sequential control
- Single and fault-tolerant configurations use dedicated FCP280 baseplates
- Four PIO channels connect supported 100 and 200 Series field modules

Migration Planning

- Controller and fieldbus loading must be sized before migration
- Baseplate type and network adapters must match the installation
- Database, letterbug and time-source configuration must be preserved

Commissioning

- Verify primary/shadow role and network-adapter health
- Confirm every PIO channel and attached baseplate chain
- Prove control execution, synchronization and recovery under controlled conditions

Application checkpoints

- Distributed regulatory and sequential process control
- Fault-tolerant control using a paired FCP280 configuration
- Migration control for supported 100 and 200 Series field I/O

Evidence boundary: RH924YA is explicitly listed as the FCP280 module part number. Physical data is for a single non-fault-tolerant module, not a pair or baseplate.

Source basis: Foxboro PSS 41H-1FCP280, Rev. H.