Yokogawa NFCP501-W15 S2

01 Retain the controller baseline

1 Capture the executing configuration

Save the FCN application, network addresses and system software version. Identify whether control is single or duplex before disturbing the CPU or changing communication paths.

2 Identify the replacement

Compare the full W15 and S2 markings with the existing controller. Confirm the same extended-function selection and the intended operating-temperature option.

CPU position	Two slots
Supply requirement	5 VDC ±5%; maximum 1200 mA
Retained data	2 MB battery-backed ECC SRAM

NFCP501-W15 S2

02 Prepare the CPU pair

1 Compare both processors

For duplex use, verify the same model, suffix codes and system software version. S1/S2 style combination is permitted under the matching-model rule, but does not waive software checks.

2 Review connected interfaces

Identify both Ethernet leads and any serial cable. A redundant CPU configuration cannot keep the local RS-232-C port in application service.

Ethernet	Two RJ45 ports; 10/100/1000 Mbps
Duplex serial operation	RS-232-C unavailable
I/O link	Duplex SB bus

03 Restore storage and bus configuration

1 Handle removable media

Use the controller shutdown and SD-access indications before handling media. Fit the intended SDHC card without confusing application backup with the CPU internal flash.

2 Confirm expansion support

For E2 expansion, verify Style S2 or later and the actual interface and base arrangement. Reconnect cables to their retained positions rather than selecting a port by appearance.

SDHC selection	4–32 GB; Class 10
Internal flash	1 GB
E2 prerequisite	CPU Style S2 or later

04 Verify controlled startup

1 Read distinct status indicators

Check hardware-ready, system-ready and control-ready indications in their operating context. Observe Ethernet activity and any SD or EXEC status before releasing the application.

2 Prove the configured interfaces

Verify network communications and the assigned field I/O. In single-CPU service, test serial rate and duplex settings against the attached equipment.

Serial range	0.3–115.2 kbps selectable
Supervision	Watchdog and temperature monitor
Release criterion	Correct application and verified I/O response

NFCP501-W15 S2

05 Close the replacement record

1 Separate memory and connection faults

If the application does not recover, compare software, retained data, base allocation and network settings before replacing additional hardware. Loss of a serial path may be the result of duplex configuration.

2 Retain the tested baseline

Record the two CPU identities where applicable, software version, network settings and completed I/O tests. Keep the final media and application backup associated with this controller.

Technical basis: Yokogawa FCN Autonomous Controller Hardware (FCN-500), GS 34P02Q14-01E, 23rd edition.

Related product navigation

Yokogawa ADV151-P00 S2

Yokogawa ADV151-P00 S2 ATD5A-00

These are related references, not confirmed substitutes or an automatically approved assembly.