

INDUSTRIAL AUTOMATION PRODUCT

NFCP501-W15 S2

STARDOM FCN-500 processor module

Controller logic, redundant SB-bus I/O, Ethernet and RS-232-C communications

IDENTITY	VERIFIED VALUE
Manufacturer	Yokogawa
System family	Yokogawa STARDOM FCN-500 autonomous controller
Part number	NFCP501-W15 S2
Country	Japan
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named Yokogawa product record.

PARAMETER	TECHNICAL VALUE
CPU	Intel Atom E3815, 1.46 GHz
Style	S2
Main memory	256 MB with ECC
SRAM	2 MB with ECC, battery backed
Onboard flash	1 GB
SD card	SDHC 4 to 32 GB, Class 10
Ethernet ports	2 RJ45
Ethernet speed	10/100/1000 Mbit/s
Serial interface	RS-232-C, D-sub 9-pin male
Serial rate	Up to 115.2 kbit/s
Serial mode	Asynchronous, full- or half-duplex
I/O bus	Redundant SB bus
Diagnostics	Watchdog timer and temperature monitoring
Battery capacity	1000 mAh
Supply	5 V DC +/-5%
Current consumption	1200 mA maximum
Rack occupancy	2 slots
Duplex operation	Supported

3

System Role and Architecture

Controller logic, redundant SB-bus I/O, Ethernet and RS-232-C communications

FUNCTION 1

Uses a 1.46 GHz Intel Atom processor

FUNCTION 2

Supports duplex processor operation

FUNCTION 3

Provides two gigabit-capable Ethernet ports

FUNCTION 4

Coordinates redundant SB-bus field I/O

Matched system components

- FCN-500 base unit
- SB-bus I/O modules
- SDHC engineering card
- STARDOM engineering and network configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	FCN-500 base unit
Companion hardware	SB-bus I/O modules
Field connection	SDHC engineering card
Primary system function	Uses a 1.46 GHz Intel Atom processor
Controlled acceptance duty	Autonomous process control

4

Applications and Engineering Context

Autonomous process control

Uses a 1.46 GHz Intel Atom processor

Remote utility station automation

Supports duplex processor operation

Redundant field control node

Provides two gigabit-capable Ethernet ports

FCN-500 processor renewal

Coordinates redundant SB-bus field I/O

TECHNICAL NOTE

Verify NFCP501-W15 S2, processor operating mode, Ethernet addresses, serial parameters, SB-bus configuration, SDHC contents and battery condition before replacement; confirm duplex synchronization and all controller diagnostics after restart.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	NFCP501-W15 S2 / NFCP501-W15 S2 recorded
Physical interface	FCN-500 base unit
Companion check	SB-bus I/O modules
Functional proof	Uses a 1.46 GHz Intel Atom processor
Application test	Autonomous process control

5

Engineering Precautions

- 1 Verify the complete NFCP501-W15 S2 marking and its assigned Yokogawa STARDOM FCN-500 autonomous controller position before work.
- 2 Place the connected autonomous process control process in the approved maintenance state.
- 3 Isolate applicable power and controller logic, redundant sb-bus i/o, ethernet and rs-232-c communications field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 21000-34-10-20-062-04-02	Related industrial automation product	View Bently Nevada 21000-34-10-20-062-04-02 page
Bently Nevada 21000-34-10-20-058-04-02	Related industrial automation product	View Bently Nevada 21000-34-10-20-058-04-02 page
Bently Nevada 330881-16-00-307-06-02	Related industrial automation product	View Bently Nevada 330881-16-00-307-06-02 page
Bently Nevada 330881-16-00-200-06-02	Related industrial automation product	View Bently Nevada 330881-16-00-200-06-02 page
Bently Nevada 330103-00-25-05-02-00	Related industrial automation product	View Bently Nevada 330103-00-25-05-02-00 page
Bently Nevada 330106-05-30-10-02-IN	Related industrial automation product	View Bently Nevada 330106-05-30-10-02-IN page
Siemens 6RY1243-0EA00	Related industrial automation product	View Siemens 6RY1243-0EA00 page
Honeywell 10024-H-I	Related industrial automation product	View Honeywell 10024-H-I page

MANUFACTURER SOURCE RECORD

Yokogawa STARDOM FCN-500 technical information and general specification

TI 34P02A13-01E; BU 34P02A00-81

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

