

DEVICEMASTER[®] FreeWire

HIGHLIGHTS

- Industry's most advanced wireless security, supporting WPA, WPA2, WEP and PSK or 802.11x authentication with TTLS, TLS, LEAP, PEAP, and FAST
- 802.11 b/g wireless communications with option of direct 10/100 Ethernet connection
- Enterprise level security features including access control lists, protocol and application enable/disable control, read and write configuration passwords, and SNMP community name configuration
- Widest variety of management options, including HTTP, Telnet, Windows-based utility, console port, and SNMP
- Rugged, IP40-rated steel housing with side flange mounting supports a wide variety of installation options
- Windows COM port redirector software ensures seamless integration with applications by mapping remote serial ports to local PC COM ports

- Scanner
- Printer
- DNC Machine
- Weigh Scale
- Sensors



Part Number
31300-7



DeviceMaster
FreeWire



Access Point



Server

Flexible, Rugged, Compatible Wireless Device Server Features Industry's Most Advanced Security

DeviceMaster FreeWire leverages the industry's most advanced security to enable communication to remote serial devices via 802.11b/g wireless or direct wired 10/100 Ethernet technologies. The latest addition to Control's DeviceMaster family of serial device servers, FreeWire is ideal for situations where LANs are not feasible, where wiring is difficult or where devices are moved periodically. FreeWire's flexible connection options provide the ultimate freedom of choice.

Like other DeviceMaster products, FreeWire is packaged in a rugged, galvanized, IP40-rated steel enclosure, facilitating installation in a wide variety of environments. And FreeWire is fast and easy to install and manage: It includes an extensive management application that allows users to set up, configure, manage and maintain multiple device servers quickly and simultaneously. FreeWire also includes COM port redirector software for mapping local COM ports to the remote FreeWire serial connection and an integrated web server for remote configuration from any networked PC, Telnet and serial console administration.

All of this from Control, one of the oldest, most respected manufacturers of device connectivity servers in the industry.



SPECIFICATIONS

HARDWARE

Bus Interface Specification

Enclosure	Metal IP40 Rating
Installation Method	Panel Mounting
LED Indicators	Power, 10Mbps, 100Mbps

Dimensions

4.95" x 0.95" x 2.96"

Product Weight .76 lbs

ELECTRICAL SPECIFICATIONS

Device

DC Input Voltage 4.75 - 5.25 VDC

Current Consumption

+5VDC 600 mA

Power Consumption (max) 3 W

Control External Power Supply

Output Voltage 5VDC

Output Current

+5VDC 2.5 A

Line Frequency 50/60 Hz

Line Voltage 100-240 VAC

ESD Surge Protection

Provides minimum of 15KV protection for all serial lines

ENVIRONMENTAL SPECIFICATIONS

Air Temperature

System on 0° to 50° C

System off -20° to 70° C

Operating Humidity

Non-condensing 10% to 90%

Altitude

0 to 10,000 Feet

Heat Output

10.24 BTU/Hr

SERIAL COMMUNICATIONS

Connector Type DB9 Male

Supported Standards RS-232

Baud Rates 300 to 921 kbps

Receive Buffer 1,024 Bytes

Transmit Buffer 4,096 Bytes

Device Driver Data Control

Data Bits 7 or 8

Parity Odd, even or none

Stop Bits 1 or 2

Flow Control Hardware or Software

NETWORK SPECIFICATIONS

Ethernet Interface 10/100 Base-T

WLAN/Ethernet Protocols

802.11g, ARP, TCP, Telnet, ICMP, SNMP, DHCP, BOOTP, Auto IP, HTTP, SMTP, TFTP, SLP, DNS, Dynamic DNS, RFC2217, WLAN roaming

Wireless Security

WPA and WPA2 (personal and enterprise modes), PAP, MS-CHAPv2, 802.1x EAP with TLS/TLS/LEAP/PEAP/FAST, WEP

Data rates with automatic fallback

54MBPS, 48MBPS, 36MBPS, 24MBPS,

18MBPS, 12MBPS, 11MBPS, 9MBPS,

6MBPS, 5.5MBPS, 2MBPS, or 1MBPS

Frequency Range

2.4 GHZ ISM Band

Operating Range

100 m

Transmitter Output

802.11g mode

Channel 2-10, 12, 13 15 dBm

Channel 11 14 dBm

Channel 1 12 dBm

802.11b mode

Channel 14 14 dBm

Receiver Sensitivity (PER <10%)

11g:

54Mbps -68 dB Min

48Mbps -68 dB Min

36Mbps -75 dB Min

24Mbps -79 dB Min

18Mbps -82 dB Min

12Mbps -84 dB Min

9Mbps -87 dB Min

6Mbps -88 dB Min

11b:

11Mbps -82 dB Min

5.5Mbps -84 dB Min

2Mbps -86 dB Min

1Mbps -88 dB Min

External Antenna Type

Detachable RP-SMA connector with dipole

swivel 2.0dB gain

Operating Mode

Infrastructure, ad-hoc

REGULATORY STANDARDS

Emissions

European Standard EN55022

EN 301 489-1

EN 301 489-17

EN 300 328

FCC Part 15 Subpart B and Subpart C: Class B

limit AS/NZS 4268

CISPR 22 Class B limit

Immunity

EN55024:

IEC 1000-4-2/EN61000-4-2: ESD

IEC 1000-4-3/EN61000-4-3: RF

IEC 1000-4-4/EN61000-4-4: Fast Transient

IEC 1000-4-5/EN61000-4-5: Surge

IEC 1000-4-6/EN61000-4-6: Conducted

Disturbance

IEC 1000-4-11/EN61000-4-11: Dips and Voltage

Variations

Safety

IEC 60950/EN60950

CSA C22.2 No. 60950/UL 60950 Third Edition

Other

European Standard: 2002/95/EC Directive

(RoHS)

REGULATORY APPROVALS



MANAGEMENT AND UTILITIES

Serial Port Emulator Software

Management Utility

Web Browser Interface

Console Accessible Via Serial Port or TELNET

Simple Network Management Protocol (SNMP)

MIB I and II; IP

Firmware Downloads Via TCP/IP (master mode

tftp, slave mode TFTP, or BOOTP)

On-line HELP

EXPORT INFORMATION

Packaged Shipping Weight 2.13 lbs

Packaged Dimensions

10.25" x 7.5" x 3.375"

Country of Origin

Japan

ECCN

5A992

Schedule B Number

8473.30.1180

FCC License Number

N6C-SX10WG

FEATURES

SNMP Support

RoHS Compliant

2-Year Warranty



APPLICATIONS

- Serial printers
- Medical devices
- Material handling
- Weigh scales
- Security access and control
- Point of sale
- LED signs
- Industrial automation
- Building automation
- Nearly any M2M or SCADA application utilizing serial connectivity

ORDERING INFORMATION

31300-7 DeviceMaster FreeWire 1-Port

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information

Control offers a 30-day satisfaction

guarantee and 5-year limited

warranty.

Sales Support

+1.763.957.6000

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Technical Support

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