

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
- Installation Method
- LED Indicators
- Dimensions
- Product Weight

Metal IP40 Rating
Panel Mounting
Power, 10Mbps,
100Mbps
4.95" x 0.95" x 2.96"
.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
- Ethernet Protocols 802.11g, ARP, TCP, Telnet, ICMP, SNMP, DHCP, BOOTP, Auto IP, HTTP, SMTP, TFTP, SLP, DNS, Dynamic DNS, RFC2217
- Wireless Security
 - WPA and WPA2 (personal and enterprise modes), PAP, MS-CHAPv2, 802.1x EAP with TLS/TTLS/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

- RoHS 2002/95/EC
- CE
- FCC
- UL/cUL
- C-Tick

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 2-year limited warranty.

Sales Support
+1.763.494.4100
sales@comtrol.com

Technical Support
+1.763.494.4100
www.comtrol.com/support

Email, FTP, and Web Support
info@comtrol.com
ftp.comtrol.com
www.comtrol.com