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



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 Comtrol'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 packages 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 Comtrol, 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"	100111000
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	
Comtrol 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		

m 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% 0 to 10,000 Feet Altitude Heat Output 10.24 BTU/Hr

SERIAL COMMUNICATIONS

Connector Type Supported Standards Baud Rates Receive Buffer Transmit Buffer **Device Driver Data Control** Data Bits Parity Stop Bits Flow Control

1,024 Bytes 4,096 Bytes 7 or 8 Odd, even or none 1 or 2 Hardware or Software

300 to 921 kbps

DB9 Male

BS-232

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/TTLS/LEAP/PEAP/FAST, WEP Data rates with automatic fallback 54MBPS, 48MBPS, 36MBPS, 24MBPS, 18MBPS, 12MBPS, 11MBPS, 9MBPS, 6MBPS, 5.5MBPS, 2MBPS, or 1MBPS 2.4 GHZ ISM Band Frequency Range **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 14 dBm Channel 14

Reciever 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 Safetv 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

Comtrol offers a 30-day satisfaction guarantee and 5-year limited warranty.

Sales Support +1.763.957.6000 sales@comtrol.com

Technical Support +1.763.957.6000 www.comtrol.com/support

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