



## DeviceMaster® FreeWire

Part Number: 31300-7



DEVICE SERVER

### KEY FEATURES AND BENEFITS

- 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
- IPv6 support
- RoHS2 compliant under CE

### PRODUCT DESCRIPTION

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.



connect. communicate. control.

# DEVICEMASTER 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"	
125.7 x 24.1 x 75.2 mm	
Product Weight	
.76 lbs	
0.34 kg	

## 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	
0 to 3,048 m	
Heat Output	10.24 BTU/Hr

## SERIAL COMMUNICATIONS

Connector Type	DB9 Male
Supported Standards	RS-232
Baud Rates	300 bps 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/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	
RoHS2 compliant under CE	

## MANAGEMENT AND UTILITIES

Serial Port Emulator Software	
Management Utility	
Web Browser Interface	
Console Accessible Via Serial Port or TELNET	
Simple Network Management Protocol (SNMP)	
MB 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	
0.97 kg	
Packaged Dimensions	
10.25" x 7.5" x 3.38"	
260.4 x 190.5 x 85.9 mm	
Country of Origin	Japan
ECCN	5A992
Schedule B Number	8473.30.1180
FCC License Number	N6C-SX10WG

## FEATURES

SNMP Support
RoHS2 Compliant
2-Year Warranty

## REGULATORY APPROVALS



**Warranty Information**  
Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

**Sales Support**  
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