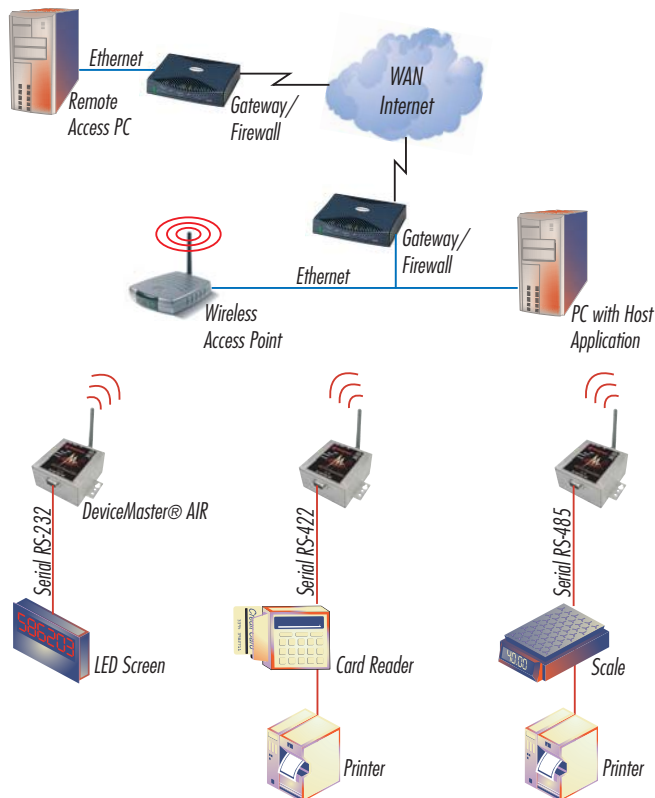


Part number 99004-8 DeviceMaster® AIR



The DeviceMaster AIR 1-Port is a one-port wireless serial device server. It utilizes the 802.11b protocol for the Ethernet connection, a DB9 male serial port, and is housed in a stainless steel enclosure, which can be panel- or DIN-rail mounted. It supports RS-232, RS-422, and RS-485 serial communication modes. The product is capable of executing device resident applications developed with the DeviceMaster software developer's kit, and is remotely manageable with PortVision. An external 110VAC power supply is packaged with the DeviceMaster AIR. The product has been tested and certified compatible with D-Link access points, and is also compatible with other 802.11b access points.



DeviceMaster AIR Connectivity

Highlights

- ◀ **No serial cable distance limitations** — enables communication between a host PC and serial devices located anywhere across an Ethernet network
- ◀ **Software-selectable RS-232, RS-422, or RS-485** — serial interfaces simplify setup and eliminate mechanical tampering associated with DIP switch products
- ◀ **Application compatibility** — supports native COM, TTY, or TCP/IP Socket communication modes
- ◀ **Web-based configuration** — makes setup and management changes quick and easy
- ◀ **Real-time e-mail event notification** — alerts administrator of potential connection and security issues
- ◀ **Rugged stainless steel housing** — enables DIN rail or panel mounting
- ◀ **Temperature rated for extreme conditions** — operating temperature of -20° to 60°C enables DeviceMaster to function in a wide variety of harsh environments
- ◀ **PortVision™ remote monitoring and management software** — automatically locates DeviceMasters on the network, enabling user to view status, update firmware, resolve issues remotely, and more
- ◀ **Software developer kit** — available for users interested in writing custom applications to run on the DeviceMaster platform

DeviceMaster AIR Enables You to:

- ✓ **Wireless-enable any RS-232/422/485 serial device in minutes** — avoiding impractical, time consuming, and costly wiring
- ✓ **Easily alternate between a wired or wireless network connection** — enabling flexible, simplified network connectivity for devices frequently relocated
- ✓ **Wireless-enable existing multiport device server** — leveraging your investment in existing wired device servers
- ✓ **Wireless-enable limited wired LAN segments** — providing wireless communication to unconnected LAN segments



Specifications

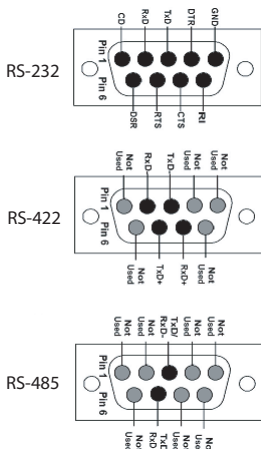
HARDWARE

Processor	ARM7 44Mhz
8MB SDRAM	
4MB Flash (Programmable)	
(1) 10/100Base-T Ethernet	
Stainless Steel Enclosure	
Product Weight	0.94 Lbs
Packaged Shipping Weight	2.40 Lbs
Panel/DIN Rail Mountable	
LED Indicators	
Status	
Ethernet Link/Activity	
Duplex	
100MB Ethernet	
Surge Protection	15KV

WIRELESS COMMUNICATIONS

WLAN Ethernet Interface	10/100 Mbps Fast Ethernet, Auto MDI/MDIX
WLAN Ethernet Protocols	IEEE 802.11, IEEE 802.11b, IEEE 802.3, IEEE 802.3u
WLAN Data Rates	22Mbps, 11Mbps, 5.5Mbps, 2Mbps, 1Mbps with auto fallback
WLAN Encryption	WEP, 64-bit RC4, 128-bit RC4, 256-bit RC4
WLAN Media Access Control	CSMA/CA with ACK
WLAN Frequency Range	2.4GHz to 2.4385 GHz
WLAN Operating Range	Indoors - Up to 328 Ft* Outdoors - Up to 1,312 Ft *
WLAN Port Modulation	PBCC - Packet Binary Convolutional Coding
	DSSS - Direct Sequence Spread Spectrum
	11-Chip Barker Sequence
	PBCC (22Mbps/8.5db)
	PBCC (11Mbps/4.5db)
	CCK (11Mbps/8.5db)
	PBCC (5.5Mbps/1.5db)
	CCK (5.5Mbps/5.5db)
	Barker (2Mbps/3db)
	Barker (1Mbps/0db)
WLAN Transmitter Power	15dBm ± 2dB
WLAN External Antenna	Detachable 1.0dB Gain with Reverse SMA connector
WLAN Overdriving Level	+17dBm at the Antenna

*Environmental factors may affect range.



Serial Connector Pin Assignments

FEATURES

- 802.11b Wireless Interface
- NS-Link COM/TTY Port Redirector
- PortVision Remote Management
- Hardware & Software Flow Control
- Watchdog Reset
- Event Notification
- RFC 1006 TCP/IP, UDP Socket Services, Telnet, HTTP, SNMP, DHCP, RARP, ARP, BOOTP, Ping, WEP
- Lowest Latency

ELECTRICAL SPECIFICATIONS

Device Requirements	1.1A @ 5 VDC
Device Consumption	5.5 Watts
External Power Supply	(Included)
Input	100 to 120VAC @50-60Hz
Output	2.5A @ 5 VDC

ENVIRONMENTAL SPECIFICATIONS

Ambient Operating Temperature	-20 to 60°C
Storage Temperature	-40 to 85°C
Humidity (Non-Condensing)	System On: 20% to 80% System Off: 8% to 80%
Altitude	0 to 10,000 Ft
Heat Output	17.66 BTU/Hr
MTBF	17.8 Yrs

SERIAL COMMUNICATIONS

Software-Selectable Interface	RS-232/422/485
LAN Ethernet Interface	10/100 Mbps
Baud Rates	50 to 230 Kbps
Serial Connector	(1) DB9 Male
Data Bits	7 or 8
Parity	Odd, Even, None
Stop Bits	1 or 2

REGULATORY APPROVAL MARKS

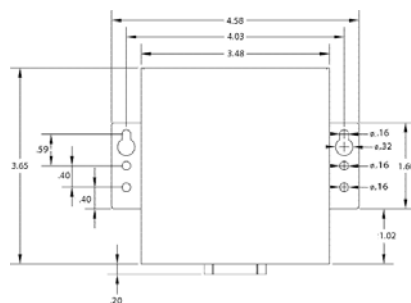
CE Mark, FCC Part 15 Subpart B Class A, C-Tick, CUL

REGULATORY STANDARDS

Immunity: EN55024; EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, IEC 1000-4-2, IEC 1000-4-3, IEC 1000-4-4, IEC 1000-4-5, IEC 1000-4-6, IEC 1000-4-8, IEC 1000-4-11
Emission: EN55022 & A1:2000 IEC 1000-3-2, IEC 1000-3-3, CISPR-22, ICES-003
Safety: EN60950, IEC 60950, CSA C22.2 No. UL60950

DEVICE DRIVERS

Microsoft Windows NT® 4.0, Microsoft Windows 2000®, Microsoft Windows XP®, Microsoft Windows Server 2003®, Linux



Dimensional Diagram for DeviceMaster AIR

Product Support & Service Information

Technical Support. All Control products come with easy-to-use documentation. For technical assistance, our top-notch technical support team is only a phone call away. Call (763) 494-4100, or e-mail support@comtrol.com.

Warranty. Control offers a 30-day satisfaction guarantee and 2-year limited warranty on the DeviceMaster® AIR product.

Email, FTP, and World Wide Web Support.

For more information on Control products or programs, or to download device drivers, diagnostics, or sample code, visit our Web site at www.comtrol.com or our FTP site at ftp.comtrol.com, or e-mail us at info@comtrol.com.

Product information subject to change without notice.



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