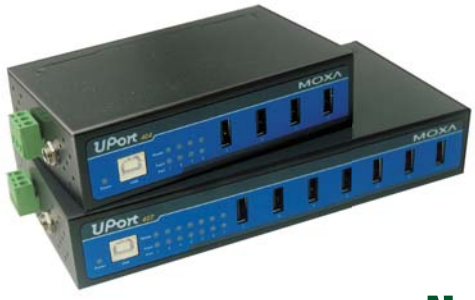
Industrial Networking Solutions

- Industrial Ethernet
- Serial Connectivity and Networking
- Industrial Wireless
- Embedded Computing

MOXA®

www.moxa.com



New Product Showcase

New Product Showcase

Industrial Ethernet Switches

EDS-608 (page 3-24)

Coming Soon

8-port compact modular managed Ethernet switch

Features

> Modular design lets you choose from a variety of media combinations
> Turbo Ring and RSTP/STP (IEEE 802.1w/D) for Ethernet redundancy
> QoS, IGMP snooping/GMRP, VLAN, LACP, SNMPv1/v2c/v3, RMON supported
> IEEE 802.1X, HTTPS, and SSH to enhance network security
> -40 to 75°C operating temperature (T models)

EDS-G509 Series (page 3-29)

9G-port full Gigabit managed Ethernet switches

Features

> 4 10/100/1000BaseT(X) ports plus 5 combo (10/100/1000BaseT(X) or 100/1000BaseSFP slot) Gigabit ports
> Fiber optic options for extending distance and improving electrical noise immunity
> Turbo Ring, RSTP/STP (IEEE 802.1w/D) for Ethernet redundancy
> QoS, IGMP snooping/GMRP, VLAN, LACP, SNMPv1/v2c/v3, RMON supported
> IEEE 802.1X, HTTPS, and SSH enhance network security

EDS-P510 Series (page 3-40)

7+3G-port Gigabit PoE managed Ethernet switches

Features

> 4 IEEE 802.3af-compliant PoE and Ethernet combo ports
> Provides up to 15.4 watts at 48 VDC per PoE port
> Intelligent power consumption detection, classification, and PoE scheduling function
> 3 combo (10/100/1000BaseT(X) or 100/1000BaseSFP slot) Gigabit ports; 2 ports for redundant ring and 1 port for uplink
> Turbo Ring (recovery time < 20 ms), RSTP/STP (IEEE 802.1w/D) for Ethernet redundancy

IKS-6726 Series (page 3-14)

24+2G-port Gigabit modular managed Ethernet switches

Features

> Meets UL 60950-1, NEMA TS2, EN50155/EN50121-4, and DNV/GL certifications
> Turbo Ring and RSTP/STP for Ethernet redundancy
> Isolated redundant power inputs with universal 24/48 VDC or 110/220 VDC/VAC power supply
> Modular design lets you choose from a variety of media combinations
> -40 to 75°C operating temperature range

EDS-G205/G308 Series (page 3-57)

5G and 8G-port full Gigabit unmanaged Ethernet switches

Features

> Fiber optic options for extending distance and electrical noise immunity (EDS-G308)
> Redundant dual 12/24/48 VDC power inputs
> Relay output warning for power failure and port break alarm
> Broadcast storm protection
> -40 to 75°C operating temperature range (T models)

EDS-205A/208A Series (page 3-62)

5 and 8-port unmanaged Ethernet switches

Features

> 10/100BaseT(X) (RJ45 connector), 100BaseFX (multi/single-mode, SC or ST connector)
> Redundant dual 12/24/48 VDC, 18 to 30 VAC power inputs
> IP30 aluminum housing
> Rugged hardware design well-suited for hazardous locations (Class I Div. 2 / Zone 2) and marine environments (DNV/GL/ABS/LR/NKK)
> -40 to 75°C operating temperature range (T models)

Industry-specific Ethernet Switches

TN-5508/5510/5516/5518 Series (page 4-7)

Coming Soon

8, 8+2G, 16, 16+2G-port M12 managed Ethernet switches

Features

> M12 connectors for robust links
> Wide power input range from 12 to 110 VDC (LV-MV model)
> Isolated redundant power inputs with universal 12/24/36/48 VDC, 72/96/110 VDC, or 110/220 VDC/VAC power supply range
> 2-port flexibility of Gigabit Ethernet ports with relay bypass function
> EN50155/50121-3-2/50121-4, NEMA TS2, and e1 compliant
> -40 to 75°C operating temperature range (T models)

TN-5308 Series (page 4-10)

Coming Soon

8-port M12 unmanaged Ethernet switches

Features

> Universal 12/24/36/48 or 72/96/110 VDC power supply range
> M12 connectors and IP40 metal housing
> Supports IEEE 802.3/802.3u/802.3x
> EN50155/50121-3-2/50121-4, NEMA TS2, and e1 compliant
> -40 to 75°C operating temperature range (T models)

PT-7828 Series (page 4-20)

IEC 61850-3 24+4G-port Layer 3 Gigabit modular managed rackmount Ethernet switches

Features

> Layer 3 routing to interconnect multiple LAN segments
> IEC 61850-3, IEEE 1613 (power substations), NEMA TS2 (traffic control systems), and EN50121-4 (railway applications) compliant
> Turbo Ring and RSTP/STP for Ethernet redundancy
> Isolated redundant power inputs with universal 24/48 VDC or 110/220 VDC/VAC power supply range
> Modular design for various media options: RJ45, fiber optic, M12, and SFP ports
> -40 to 85°C operating temperature range

PT-7710 Series (page 4-26)

IEC 61850-3 8+2G-port Gigabit modular managed rackmount Ethernet switches

Features

> IEC 61850-3, IEEE 1613 (power substations), NEMA TS2 (traffic control systems), and EN50121-4 (railway applications) compliant
> Turbo Ring and RSTP/STP for Ethernet redundancy
> Universal power supply range, 12/24/48 VDC or 110/220 VDC/VAC
> Modular design lets you choose from a variety of media combinations
> -40 to 85°C operating temperature range

Industrial I/O

Active OPC Server Lite (page 5-11)

Seamlessly connect ioLogik to your SCADA system

Features

> OPC DA 3.0 supported
> Event-driven tag update:
  - Save 80% on network bandwidth
  - I/O response that's 7 times faster
> Patented automatic tag generation
> Firewall-friendly connection from remote ioLogik devices
  - Allows remote I/O to use dynamic IP
  - Allows remote I/O to use private IP
> Download free from Moxa's website

Click&Go (page 5-13)

Easy and intuitive I/O control configuration for ioLogik Active Ethernet I/O

Features

> PC-free solution with local intelligence
> Programming-free IF-THEN-ELSE logic reduces setup time
> Time stamped active alarm reports with TCP, UDP, SNMP Trap, email, SMS, or CGI commands
> Time-based scheduler and timer control
> Input-to-output control over IP with peer-to-peer and remote action

ioLogik E2242 (page 5-19)

Active Ethernet I/O with 4 analog inputs and 12 configurable DIOs

Features

> 4 fixed differential analog input channels
> 12 configurable digital input/output channels
> DI counter saved automatically when power shuts off
> Instant event messaging by TCP/UDP/email/SNMP-Trap
> PC-based configuration utility and web console
> Easy-to-use Click&Go™ Logic for local output control
> Windows/WinCE VB/VC.NET and Linux C APIs
> I/O control over Modbus/TCP and SNMP protocol
> NIST traceable calibration

ioMirror E3210 (page 5-22)

Ethernet Peer-to-Peer I/O with 8 digital inputs and 8 digital outputs

Features

> Direct input-to-output signal communication over IP
> High speed Peer-to-Peer I/O within 20 ms
> One physical alarm port for connectivity status
> Quick and easy utility and web-based settings
> Local alarm channel and remote alarm messaging
> Supports Modbus/TCP for remote monitoring
> Optional LCD module for convenient configuration

ioLogik E4200 (page 5-24)

Modular Active Ethernet I/O adaptor

Features

> Supports up to 16 I/O modules
> Dual Ethernet LANs and one RS-232 port
> Front-end intelligence that supports 80 Click&Go rules
> Unicode Active Messaging with real-time stamp, including SMS, SNMP Trap with I/O status, TCP, email
> Built-in web console
> PC utility: Auto detection of installed modules
> Windows/WinCE VB/VC.NET and Linux C APIs

ioLogik W5340 (page 5-27)

Active GPRS I/O with 4 AIs, 8 DIOs, and 2 relay outputs

Features

> GPRS, Ethernet LAN, RS-232/422/485 supported
> Smart Active GPRS connection
> Low power consumption
> Secure wake on call ID
> Active messaging with real-time stamp
> SNMP Trap with I/O status
> Data logging with SD card
> Unicode Active Messaging with real-time stamp, including SMS, SNMP Trap with I/O status, TCP, email
> ioAdmin and Active OPC Server supported
> Windows/WinCE VB/VC.NET and Linux C APIs

Video Networking Products

VPort 354 Series (page 6-7)

Coming Soon

Full motion, 4-channel MJPEG/MPEG4 industrial video encoders

Features

> Industrial design with -40 to 75°C operating temperature and fiber optic Ethernet port
> 2 Ethernet ports for cascade and port redundancy
> SD card slot for local storage capability
> Modbus/TCP supported for easy communication with SCADA software
> Video stream up to 120 frames/sec at 4CIF (704 x 480) resolution

VPort 351 Series (page 6-13)

Full motion, 1-channel MJPEG/MPEG4 industrial video encoder

Features

> Industrial design with -40 to 75°C operating temperature and fiber optic Ethernet port
> Video stream up to 30 frames/sec at full D1 (720 x 480) resolution
> Pre/post-alarm video recording function for advanced surveillance
> 2-way (1-in/1-out) audio supported
> Free VPort SDK PLUS and 4-channel video surveillance software

VPort 251 (page 6-20)

Full motion, 1-channel MJPEG/MPEG4 video encoder

Features

> Compress analog video/audio signals into MJPEG/MPEG4 video streams
> Video stream up to 30 frames/sec at full D1 (720 x 480) resolution
> 2-way (1-in/1-out) audio supported
> Transparent PTZ control for using legacy PTZ control panel or keyboard
> Loop-through power output for powering an analog camera

VPort D351 (page 6-22)

1-channel MJPEG/MPEG4 industrial video decoder

Features

> Decode MJPEG and MPEG4 video streams to an analog video signal automatically
> Manual selection or automatic scan with maximum of 64 video sources
> 2-way (1-in/1-out) audio supported
> Transparent PTZ control with legacy PTZ controller
> SNMP for network management

VPort 25 Series (page 6-24)

IP66, day-and-night vandal-proof fixed dome IP camera for outdoors

Features

> -40 to 50°C operating temperature; heater or fan not required
> IP66-rated for protection from rain and dust
> Direct-wired power input and PoE for power redundancy
> Up to 30 frames/sec at 720 x 480 resolution
> One camera lens for both day and night use

SoftNVR (page 6-27)

Expandable IP surveillance software for managing up to 64 video channels

Features

> Multi-screen viewing format (maximum of 64 channels)
> Dual monitor capability
> Video analytics and instant response
> Video quality enhancement tools
> Intelligent and convenient video search

Terminal Servers

CN2600 Series (page 7-24)

8 and 16-port RS-232/422/485 terminal servers with LAN redundancy

Features

> LCD panel for easy IP address configuration
> Dual-LAN cards with two independent MAC addresses and IP addresses
> Redundant COM function available when both LANs are active
> Dual-host redundancy can be used to add a backup PC to your system
> Dual AC power inputs
> Real COM/TTY drivers for Windows and UNIX

Serial Device Servers

NPort S8000 Series (page 8-16)

Combo switch / serial device server

Features

> Configurable serial data transmission priority
> 5-port managed Ethernet switch built in
> Ethernet redundancy with Turbo Ring® (recovery time < 20 ms) or RSTP/STP (IEEE 802.1w/D)
> QoS, IGMP-snooping/GMRP, VLAN, LACP, SNMPv1/v2c/v3, RMON supported
> 4-port RS-232/422/RS-485 serial device server
> 2 KV (DC) isolation protection for each serial port
> Surge protection for serial, power, and Ethernet
> 15 KV ESD surge protection for all serial signals
> Adjustable pull high/low resistor and terminator for RS-485 ports

NPort 5600 Desktop Series (page 8-35)

8-port RS-232/422/485 serial device servers

Features

> 8 serial ports supporting RS-232/422/485
> Compact desktop design
> 10/100M auto-detecting Ethernet
> Built-in 15 KV ESD protection for all serial signals
> Easy IP address configuration with LCD panel
> Choice of configuration methods: Web console, Telnet console, and Windows utility
> Versatile socket operation modes, including TCP Server, TCP Client, UDP, and Real COM
> SNMP MIB-II for network management
> Built-in recorder: Use your own voice as the alert when exceptions occur

MiiNePort E1 Series (page 8-42)

Coming Soon

10/100 Mbps embedded serial device servers

Features

> Same size as an RJ45 connector—only 33.9 x 16.25 x 13.5 mm
> Extremely low power consumption—only 600 mW @ 3.3 VDC input
> Uses the MiiNe, Moxa's second generation SoC
> NetEz technology makes integration incredibly easy
> Versatile choice of operation modes: Real COM, RFC2217, TCP Server, TCP Client, UDP, and Modem

WE-2100T Series (page 8-49)

Wireless LAN embedded serial device servers

Features

> Connects serial devices to IEEE 802.11a/b/g networks
> Choice of operation modes: Real COM, TCP Server, TCP Client, UDP, and RFC2217
> Windows (including Vista) Real COM and Linux fixed TTY drivers provided
> Wireless security with WEP, WPA, and WPA2
> Select any baudrate between 50 bps and 921.6 Kbps
> 9 programmable digital I/O channels
> SSL/SSH encryption for configuration
> Compact size and easy to mount housing

Ethernet Fieldbus Gateways

MGate™ MB3170/3270 (page 9-8)

1 and 2-port advanced serial-to-Ethernet Modbus gateways

Features

> Configuration is exceptionally easy
> Slave mode supports 16 TCP masters and up to 62 serial slaves at the same time
> Master mode supports 32 TCP slaves at the same time
> Emergency request tunnels ensure QoS control
> Serial redirector function provided
> Embedded Modbus protocol analyzer
> Redundant dual DC power inputs
> Built-in Ethernet cascading for easy wiring

MGate EIP3000 (page 9-13)

1 and 2-port DF1 to Ethernet/IP gateways

Features

> Supports PCCC objects for Rockwell Automation networks
> Supports 8 simultaneous Ethernet/IP clients with up to 16 simultaneous requests per client
> Serial redirector function provided
> Remote serial port for multiple DF1 device communication
> Embedded Ethernet/IP and DF1protocol analyzer
> Redundant dual DC power inputs
> Built-in Ethernet cascading for easy wiring

Multiport Serial Boards

CP-102E/EL (page 10-26)

2-port RS-232 PCI Express boards

Features

> PCI Express x1 compliant
> 921.6 Kbps maximum baudrate for super fast data transmission
> 128-byte FIFO and on-chip H/W, S/W flow control
> Low profile form factor fits small-sized PCs
> Drivers provided for Windows (2000, XP/2003/Vista/2008 x86/x64), Linux 2.4/2.6, QNX 6, Windows XP Embedded, SCO OpenServer 5/6, UnixWare 7
> 15 KV ESD protection on the board

CP-132EL/EL-I (page 10-28)

2-port RS-422/485 PCI Express boards with optional 2 KV isolation

Features

> PCI Express x1 compliant
> 921.6 Kbps maximum baudrate for super fast data transmission
> 128-byte FIFO and on-chip H/W, S/W flow control
> Low profile form factor fits small-sized PCs
> Drivers provided for Windows (2000, XP/2003/Vista/2008 x86/x64), Linux 2.4/2.6, QNX 6, Windows XP Embedded, SCO OpenServer 5/6, UnixWare 7
> 15 KV ESD protection on the board

CP-112UL/112UL-I Series (page 10-52)

2-port RS-232/422/485 Universal PCI serial boards with optional 2 KV isolation

Features

> Over 700 Kbps data throughput for top performance
> 128-byte FIFO and on-chip H/W, S/W flow control
> Universal PCI compatible with 3.3/5 V PCI and PCI-X
> Serial communication speed up to 921.6 Kbps
> Drivers provided for Windows (2000, XP/2003/Vista/2008 x86/x64), Windows CE 5.0/6.0, Windows XP Embedded, Linux 2.4/2.6, SCO OpenServer 5/6, UnixWare 7
> Easy maintenance with on-board LED display
> On-board 15 KV ESD and 2 KV optical isolation protection
> Wide temperature model available for -40 to 85°C environments

CP-114EL/EL-I (page 10-22)

4-port RS-232/422/485 PCI Express boards with optional 2 KV isolation

Features

> PCI Express x1 compliant
> 921.6 Kbps maximum baudrate for super fast data transmission
> 128-byte FIFO and on-chip H/W, S/W flow control
> Low profile form factor fits small-sized PCs
> Drivers provided for Windows (2000, XP/2003/Vista/2008 x86/x64), Linux 2.4/2.6, QNX 6, Windows XP Embedded, SCO OpenServer 5/6, UnixWare 7
> 15 KV ESD protection on the board

CP-114UL/114UL-I (page 10-46)

4-port RS-232/422/485 Universal PCI serial board with optional 2 KV isolation

Features

> Over 700 Kbps data throughput for top performance
> 128-byte FIFO and on-chip H/W, S/W flow control
> Universal PCI compatible with 3.3/5 V PCI and PCI-X
> Serial communication speed up to 921.6 Kbps
> Drivers provided for Windows (2000, XP/2003/Vista/2008 x86/x64, 9X/ME/NT), Windows CE 5.0/6.0, Windows XP Embedded, DOS, Linux 2.4/2.6, FreeBSD 4/5, QNX 6, SCO Open Server 5/6, UnixWare 7
> Easy maintenance with on-board LED display
> On-board 15 KV ESD and 2 KV optical isolation protection
> Wide temperature model available for -40 to 85°C environments

CP-102UF Series (page 10-60)

2-port Universal PCI serial over fiber boards

Features

> Extend serial transmission distance up to:
  - 40 km with single mode—CP-102UF-S-ST
  - 5 km with multi-mode—CP-102UF-M-ST
> Supports “Ring” and “Point-to-Point” transmission modes
> 921.6 Kbps maximum baudrate for super fast data transmission
> 128-byte FIFO and on-chip H/W, S/W flow control
> Compatible with 3.3/5 V PCI and PCI-X
> Drivers provided for Windows (2000, XP/2003/Vista/2008 x86/x64), Windows XP Embedded, Windows CE 5.0/6.0, DOS, Linux 2.4, Linux 2.6 (x86/x64), QNX 6, SCO OpenServer 5/6, UnixWare 7
> Easy maintenance with on-board LED display and management software
> Immune from signal interference
> Guards against electronic degradation and chemical corrosion
> Wide temperature model available for -40 to 85°C environments

USB Connectivity

UPort™ 2210/2410 (page 11-23)

2 and 4-port RS-232 USB-to-serial converters

Features

> Hi-Speed USB 2.0 for up to 480 Mbps USB transmission
> 921.6 Kbps maximum baudrate for super fast data transmission
> Additional I/O and IRQ not needed
> Built-in 15 KV ESD protection for all serial ports
> Certified drivers provided for Windows (including Vista) and Linux
> Supports Fixed-Base COM Utility for setting the initial COM port number
> LEDs for easy monitoring

UPort™ 2230/2430 (pages 11-25)

2 and 4-port RS-422/485 USB-to-serial converters

Features

> Hi-Speed USB 2.0 for up to 480 Mbps USB transmission
> 921.6 Kbps maximum baudrate for super fast data transmission
> Additional I/O and IRQ not needed
> Built-in 15 KV ESD protection for all serial ports
> Certified drivers provided for Windows (including Vista) and Linux
> Supports Fixed-Base COM Utility for setting the initial COM number
> LEDs for easy monitoring

UPort™ 404/407 (page11-27)

4 and 7-port industrial-grade USB hubs

Features

> Hi-Speed USB 2.0 for up to 480 Mbps USB transmission
> USB-IF certification
> Dual power supply (power jack and terminal block)
> 15 KV ESD Level 4 protection for all USB ports
> Rugged metal housing
> DIN-Rail and wall mountable
> Comprehensive diagnostic LEDs
> Choose bus power or external power (UPort™ 404)

UPort™ 204/207 (page 11-29)

4 and 7-port entry-level USB hubs

Features

> Hi-Speed USB 2.0 for up to 480 Mbps USB transmission
> USB-IF Certification
> Compatible with USB 1.1 devices
> 15 KV ESD Level 4 protection for all USB ports
> Wall mountable
> Comprehensive diagnostic LEDs
> Full 500 mA of power per port
> Choose bus power or external power (UPort™ 204 only)

Media Converters

TRC-190 Series (page 12-7)

Rackmount chassis for the NRack System

Features

> 19-inch chassis for rackmount use
> 19 slots for high density applications
> Supports hot-swap and dual power input with redundancy
> Fan-less chassis design reduces repair time

TCF-142-RM Series (page 12-9)

RS-232/422/485 to fiber slide-in modules for the NRack System

Features

> Extend RS-232/422/485 transmission up to:
  - 40 km with single mode
  - 5 km with multi-mode
> 1K or 150K ohm adjustable pull high/low resistor
> "Ring" and "Point-to-Point" transmission supported

ICF-1150 Series (page 12-11)

Industrial serial-to-fiber converters

Features

> RS-232, fiber, and RS-422/485 3-way communication
> Rotary switch to change the pull high/low resistor value
> Extend RS-232/422/485 transmission up to:
  - 40 km with single-mode
  - 5 km with multi-mode
> 3-way Galvanic Isolation (for "I" model only)
> -40 to 85°C wide temperature models available
> Class I, Div. II certification (Pending)

TCF-142 Series (page 12-14)

RS-232/422/485 to optical fiber media converters

Features

> "Ring" and "Point-to-Point" transmission
> Extends RS-232/422/485 transmission up to:
  - 40 km with single-mode—TCF-142-S
  - 5 km with multi-mode—TCF-142-M
> Compact size
> Decreases signal interference
> Protects against electrical interference and chemical corrosion
> Supports baudrates of 50 bps to 921.6 Kbps
> Wide temperature models available (-40 to 75°C)

TCF-90 Series (page 12-17)

Port-powered RS-232 to optical fiber media converters

Features

> Use either external power or power over serial
> Extends RS-232 transmission up to:
  - 40 km with single-mode—TCF-90-S
  - 5 km with multi-mode—TCF-90-M
> Reduces signal interference
> Protects against electrical interference or chemical corrosion
> 15 KV ESD protection for serial signals
> Baudrates up to 115.2 Kbps
> Compact size

TCF-100/100I Series (page 12-19)

Industrial RS-232 to RS-422/485 converters with optional 2 KV isolation

Features

> RS-232 to RS-422 conversion with RTS/CTS support
> RS-232 to 2-wire or 4-wire RS-485 conversion
> 2 KV isolation protection (TCC-100I)
> Wall and DIN-rail mounting
> Plug-in terminal block for easy RS-422/485 wiring
> LED indicators for power, Tx, Rx
> -20 to 60°C operating temperature
> Wide temperature model available (-40 to 85°C)

WLAN & Cellular Solutions

AWK-4222 Series (page 13-16)

Coming Soon

Industrial IEEE 802.11a/b/g outdoor dual-RF AP/Bridge/Client

Features

> IEEE 802.11a/b/g compliant
> Redundant power inputs and PoE
> Higher security with WEP/WPA/WPA2/802.11X and powerful filters
> Turbo Roaming™ for seamless wireless connections
> Dual-RF design for redundant wireless communication
> Wide operating temperature range and IP67-rated metal housing for hazardous environments

AWK-3222 Series (page 13-20)

Coming Soon

Industrial IEEE 802.11a/b/g dual-RF AP/Bridge/Client

Features

> IEEE 802.11a/b/g compliant
> Redundant power inputs and PoE
> Higher security with WEP/WPA/WPA2/802.11X and powerful filters
> Turbo Roaming™ for seamless wireless connections
> Dual-RF design for redundant wireless communication

OnCell 5004/5104-HSDPA (page 13-34)

Coming Soon

Industrial tri-band UMTS/HSDPA high speed cellular routers

Features

> Universal tri-band UMTS/HSDPA 850/900/2100 MHz
> Industrial primary and backup wireless WAN connectivity
> Connect up to 4 10/100BaseT(X) devices
> Redundant DC power inputs
> 2 digital inputs and 1 relay output (OnCell 5104-HSDPA only)

OnCell G3110/3150-HSDPA (page 13-38)

Industrial tri-band UMTS/HSDPA IP gateways

Features

> Universal tri-band UMTS/HSDPA 850/900/2100 MHz
> Bring 10/100Base-T and serial devices together
> Choice of operation modes, including TCP Server, TCP Client, UDP, Real COM, Reverse Real COM, and RFC2217
> Secure modes for TCP Server, TCP Client, Real COM, and Reverse Real COM
> Redundant DC power inputs
> Two digital inputs and 1 relay output
> Centralize private IP management software
> DIN-Rail mounting

AWK-4121 Series (page 13-18)

Industrial IEEE 802.11a/b/g outdoor wireless AP/Bridge/Client

Features

> IEEE 802.11a/b/g compliant
> Redundant power inputs and PoE
> Higher security with WEP/WPA/WPA2/802.11X and powerful filters
> Turbo Roaming™ for seamless wireless connections
> Long-distance communication support
> Wide operating temperature range and IP67-rated metal housing for hazardous environments

AWK-3121 Series (page 13-22)

Industrial IEEE 802.11a/b/g wireless AP/Bridge/Client

Features

> IEEE 802.11a/b/g compliant
> Power input by redundant 24 VDC power inputs or Power-over-Ethernet
> Powerful security with WPA/WPA2/802.11X filters
> Turbo Roaming™ for seamless wireless connection
> Long-distance communication support
> STP/RSTP support to increase reliability
> DIN-Rail or wall mounting ability
> IP30 protected high-strength metal housing
> -40 to 75°C operating temperature range (T models)

OnCell 5004/5104 (page 13-36)

Coming Soon

Industrial quad-band GSM/GPRS cellular routers

Features

> Universal quad-band GSM/GPRS 850/900/1800/1900 MHz
> Industrial primary and backup wireless WAN connectivity
> Connect up to 4 10/100BaseT(X) devices
> Redundant DC power inputs
> 2 digital inputs and 1 relay output (OnCell 5104 only)

OnCell G3110/3150 (page 13-40)

Industrial quad-band GSM/ GPRS/EDGE IP gateways

Features

> Connect both Ethernet and serial devices to cellular networks
> Universal quad-band GSM/GPRS/EDGE-850/900/1800/1900 MHz
> Choice of operation modes, including TCP Server, TCP Client, UDP, Real COM, and RFC2217
> Secure modes for TCP Server, TCP Client, and Real COM
> Redundant DC power input
> 2 digital inputs and 1 relay output
> Centralize private IP management software
> DIN-Rail mounting

OnCell G3111/3151/3211/3251 (page 13-42) Coming Soon

1 and 2-port RS-232 or RS-232/422/485 cellular IP modems

Features

> Universal quad-band GSM/GPRS 850/900/1800/1900 MHz
> Choice of operation modes, including TCP Server, TCP Client, UDP, Real COM, and Reverse Real COM
> Management software: private IP management with OnCell Central
> Choice of configuration methods, including web console, serial console, and Telnet
> Desktop or DIN-Rail installation

NPort® W2150/2250 Plus (page 13-26)

1 and 2-port RS-232/422/485 IEEE 802.11a/b/g wireless device servers

Features

> Link any serial device to an IEEE 802.11a/b/g network
> 921.6 Kbps baudrate for RS-232/422/485 transmissions
> Web-based configuration using built-in Ethernet or WLAN
> Enhanced remote configuration with HTTPS, SSH
> Secure data access with WEP, WPA, WPA2
> Built-in WLAN site survey tool
> Wireless roaming with user-defined signal strength threshold
> Off-line port buffering and serial data log
> Dual power inputs (1 power jack, 1 terminal block)

Embedded Computers for Communication

V462 Series (page 15-8)

x86-based computers with 4 serial ports, dual LANs, VGA, CompactFlash, PCMCIA, USB

Features

> AMD Geode LX 800@0.9W CPU, 500 MHz
> Built-in 256 MB (CE) or 512 MB (XPe) DDR SDRAM
> Built-in 256 MB (CE) or 1 GB (XPe) industrial DOM to store the operating system
> 256 KB of SRAM with battery backup
> Dual 10/100 Mbps Ethernet ports for network redundancy
> 4 USB 2.0 hosts supporting system boot up
> LED indicators for power, battery, storage
> Ready-to-run WinCE 6.0 or Windows XP Embedded platform
> -40 to 75°C wide temperature model available

V464 Series (page 15-11)

x86-based computers with 4 serial ports, quad LANs, VGA, CompactFlash, USB

Features

> AMD Geode LX 800@0.9W CPU, 500 MHz
> Built-in 256 MB (CE) or 512 MB (XPe) DDR SDRAM
> Built-in 256 MB (CE) or 1 GB (XPe) industrial DOM to store the operating system
> 256 KB of SRAM with battery backup
> Quad 10/100 Mbps Ethernet ports for network redundancy
> LED indicators for power, battery, storage
> Ready-to-run WinCE 6.0 or Windows XP Embedded platform
> -40 to 75°C wide temperature model available

V466 Series (page 15-14)

x86-based computers with 4 serial ports, quad LANs, VGA, CompactFlash, built-in 8-port Ethernet switch, USB

Features

> AMD Geode LX 800@0.9W CPU, 500 MHz
> Built-in 256 MB (CE) or 512 MB (XPe) DDR SDRAM
> Built-in 256 MB (CE) or 1 GB (XPe) industrial DOM to store the operating system
> 256 KB battery backup SRAM
> Quad 10/100 Mbps Ethernet ports for network redundancy
> Built-in 8-port Ethernet switch for connecting network devices
> 4 USB 2.0 hosts supporting system boot up
> LED indicators for power, battery, storage
> Ready-to-run WinCE 6.0 or Windows XP Embedded platform
> Robust, fan-less design
> -40 to 75°C wide temperature model available

V468 Series (page 15-17)

x86-based computers with 4 serial ports, quad LANs, VGA, 8 DIs, 8 DOs, CompactFlash, USB

Features

> AMD Geode LX 800@0.9W CPU, 500 MHz
> Built-in 256 MB (CE) or 512 MB (XPe) DDR SDRAM
> Built-in 256 MB (CE) or 1 GB (XPe) industrial DOM to store the operating system
> 256 KB battery backup SRAM
> Quad 10/100 Mbps Ethernet ports for network redundancy
> 8 DI and 8 DO interfaces for digital input/output connections, with 3 KV isolation protection
> 4 USB 2.0 hosts supporting system boot up
> LED indicators for power, battery, storage
> Ready-to-run WinCE 6.0 or Windows XP Embedded platform
> -40 to 75°C wide temperature model available

UC-8410 Series (page 15-23)

RISC-based industrial embedded computers with 8 serial ports, 3 LANs, DIO, 2 CAN ports, CompactFlash, USB

Features

> Intel XScale IXP435 533 MHz processor
> 256 MB DDR2 SDRAM and 16 MB Flash ROM onboard
> 32 MB NAND Flash for data storage
> 8 RS-232/422/485 serial ports
> 4 digital input and 4 digital output channels
> 3 10/100 Mbps Ethernet ports
> 2 USB 2.0 hosts for mass storage devices
> Ready-to-run Linux platform
> Robust, fanless design
> Wide temperature model available

UC-8416 Series (page 15-26)

RISC-based industrial embedded computers with 8 serial ports, 3 LANs, DIO, 8 built-in Ethernet switch ports, CompactFlash, USB

Features

> Intel XScale IXP435 533 MHz processor
> 256 MB DDR2 SDRAM and 16 MB Flash ROM onboard
> 32 MB NAND Flash for data storage
> 8 RS-232/422/485 serial ports
> 8 Ethernet switch ports
> 4 digital input and 4 digital output channels
> 3 10/100 Mbps Ethernet ports
> 2 USB 2.0 hosts for mass storage devices
> Ready-to-run Linux platform
> -40 to 75°C wide temperature model available

UC-8418 Series (page 15-29)

RISC-based industrial embedded computers with 8 serial ports, 3 LANs, DIO, 2 CAN ports, CompactFlash, USB

Features

> Intel XScale IXP435 533 MHz processor
> 256 MB DDR2 SDRAM and 16 MB Flash ROM onboard
> 32 MB NAND Flash for data storage
> 8 RS-232/422/485 serial ports
> 2 CANbus ports
> 12 digital input and 12 digital output channels
> 3 10/100 Mbps Ethernet ports
> 2 USB 2.0 hosts for mass storage devices
> Ready-to-run Linux platform
> Robust, fanless design
> -40 to 75°C wide temperature model available

DA-682 Series (page 15-52)

x86-based rackmount computers with VGA, 4 Gigabit Ethernet ports, 2 peripheral expansion slots, CompactFlash, USB

Features

> Intel Celeron M 1 GHz processor with 400 MHz FSB
> Built-in DDR2 SDRAM and industrial flash disk module
> Quad Gigabit Ethernet ports for network redundancy
> Software selectable RS-232/422/485 with 2 KV isolation protection
> PCI expansion slots for inserting expansion modules
> 1 CompactFlash socket for storage expansion
> USB 2.0 ports for high speed peripherals, supporting system bootup
> 19-inch rackmount, 2U high form factor
> 100/240 VAC/VDC power inputs
> Ready-to-Run Linux, WinCE 6.0, or Windows XP Embedded platform
> Fanless design

DA-681 Series (page 15-49)

x86-based rackmount embedded computer with 4 isolated RS-232 and 8 isolated RS-485 ports, 6 LANs, VGA, CompactFlash, USB

Features

> Intel Celeron M 1 GHz processor with 400 MHz FSB
> 1 x 200-pin DDR2 SODIMM socket, supporting DDR2 400 up to 1 GB
> 6 10/100 Mbps Ethernet ports
> 1 CompactFlash socket, 1 IDE and serial ATA-150 connectors for storage expansion
> USB 2.0 ports for high speed peripherals
> Serial port speed from 50 to 921.6 Kbps, supporting nonstandard baudrates
> Embedded Linux, WinCE 6.0, or WinXPe platform
> 19-inch rackmount model, 1U high
> Dual 100/240 VAC/VDC power input (DP/PP version)
> Fanless Design

Embedded Computers for Automation

IA260 Series (page 16-3)

RISC-based computers with 4 serial ports, dual LANs, VGA, DIO, CompactFlash, USB

Features

> Cirrus Logic EP9315 ARM9 CPU, 200 MHz
> 128 MB RAM on-board, 32 MB flash disk
> 4 software-selectable RS-232/422/485 serial ports
> VGA interface for field site monitoring
> Dual 10/100 Mbps Ethernet for network redundancy
> 8+8 DI/DO channels, up to 30 VDC12 to 48 VDC power input design
> Supports CompactFlash and USB 2.0 hosts
> Ready-to-run Linux or WinCE 6.0 platform
> H-type heat dissipation design for system reliability
> -40 to 75°C wide operating temperature model available

IA-261-I/262-I Series (page 16-6)

RISC-based computers with 2 or 4 digitally isolated serial ports, dual LANs, VGA, CAN, DIO, CompactFlash, USB

Features

> Cirrus Logic EP9315 ARM9 CPU, 200 MHz
> 128 MB RAM on-board, 32 MB flash disk
> VGA interface for field site monitoring
> 2 KV digitally isolated RS-232/422/485 serial ports
> Dual 10/100 Mbps Ethernet for network redundancy
> Dual 2 KV digitally isolated CAN ports with CANopen protocol support
> 8+8 DI/DO with 3 KV optical isolation protection
> 12 to 48 VDC redundant power input design
> Supports CompactFlash and USB 2.0 hosts
> Ready-to-run Linux or WinCE 6.0 platform
> -40 to 75°C wide temperature models available