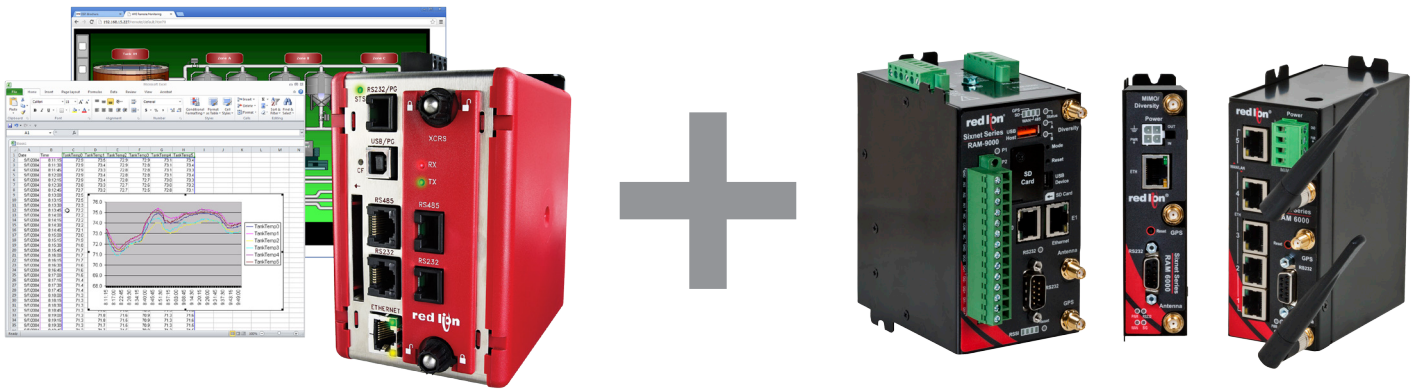


# Remote Monitoring + Control Supports 300+ Protocols for Any Industrial Application



Protocol conversion combined with cellular connectivity provides remote monitoring and control for industrial applications including water/wastewater, tank farms, utilities, oil, gas, power and alternative energy.

## Protocol Conversion

Red Lion's Data Station Plus offers protocol conversion, data logging and a built-in web server that easily integrates PLCs, drives and automation devices.

- Protocol conversion with over 300 drivers
- Data logging
- Remote machine access/configuration
- Alarm and event notification
- Email and SMS messaging
- Productivity and reporting tools

## Industrial Cellular

Red Lion's Sixnet® series RAM® industrial cellular RTUs provide reliable control and secure communication to remote sites via cellular networks.

- Multi-carrier 4G LTE with 3G fallback
- Powerful built-in event engine triggers I/O or sends SMS messages
- Secure communication supporting VPN client/host, GRE, SSL, HTTPS and stateful firewall
- Real-time access to mission-critical data
- RS-232, RS-485 and Ethernet ports
- Fully programmable router
- I/O concentration, supporting Modbus and DNP3 protocols
- Digital and analog I/O

# Protocol Drivers

## Ethernet Drivers

- <System>: Port Forwarder
- <System>: Raw TCP/IP Active
- <System>: Raw TCP/IP Passive
- <System>: Raw UDP/IP
- ABB: TotalFlow Master
- AC Tech: Simple Servo UDP
- Acromag: TCP/IP Master
- Adenus: Telnet Driver
- Allen-Bradley: DF1 Master
- Allen-Bradley: DF1 Master via PCCC/EIP
- Allen-Bradley: DF1 Slave
- Allen-Bradley: Encapsulated DF1 Master
- Allen-Bradley: Native Tag Addressing
- Allen-Bradley: Native Tags via L5K file
- Alstom: ALSPA TCP/IP Master via SRTP
- Alstom: GEM80 ESP TCP/IP Master
- Automation Direct – Koyo: Do-more PLC
- BACnet: 802.3 Master
- BACnet: 802.3 Slave
- BACnet: UDP/IP Master
- BACnet: UDP/IP Slave
- Banner: PresencePLUS Data\*\*
- Banner: PresencePLUS Image\*\*
- Banner: Vision Systems iVu Plus Vision\*\*
- Beckhoff: ADS/AMS TCP
- BETA LaserMike: LaserSpeed UDP
- BETA LaserMike: LaserSpeed UDP Final Length Mode Slave
- Bristol Babcock BSAP: UDP
- Bristol Babcock BSAP: UDP Slave
- Cognex: In-Sight Camera Data\*\*
- Cognex: In-Sight Camera Image\*\*
- CTI: 2500/2572 CAMP TCP/IP Master
- CTI: NITP TCP/IP Master
- EtherNet I/P: Slave Adapter
- EZ Automation: EZ TCP/IP Master
- Fatek: PLC
- Galil: TCP/IP Driver
- GE: TCP/IP Master via SRTP
- Honeywell: S9000
- IFM Effector: Dualis Object Recognition Sensor Camera\*\*
- IFM Effector: Dualis Object Recognition Sensor Data\*\*
- KEB: DIN66019II TCP/IP Master
- Maguire: MLAN TCP/IP
- MicroMod: TCP/IP Master
- Microscan: Vision Hawk Camera\*\*
- Mitsubishi: A/Q/FX Series TCP/IP Master
- Mitsubishi: A/Q/FX Series UDP/IP Master
- Mitsubishi: FX2N Encapsulated TCP/IP Master
- Mitsubishi: Q Series TCP/IP Master
- Modbus: Device Gateway
- Modbus: Encapsulated Master
- Modbus: TCP/IP Master
- Modbus: TCP/IP Slave
- N-Tron: N-View Monitor
- Omni Flow: TCP/IP Modbus Master Version 1.03
- Omni Flow: TCP/IP Modbus Master Modicon Compatible Version 1.01
- Omron: G9SP-Series via FINS
- Omron: Master via FINS
- OPC: TCP/IP Master
- Panasonic - Matsushita: FP Series - FP MEWTOCOL-COM TCP/IP Master
- Parker: Acroloop TCP/IP Master
- Parker: Compumotor 6K TCP/IP Master
- Phoenix Contact: nanoLC TCP
- PLC Direct Koyo: EBC UDP/IP Master
- PLC Direct Koyo: ECOM UDP/IP Master
- PPT Vision: IMPACT Inspection Builder HTTP Master\*\*

- PPT Vision: IMPACT Vision Camera\*\*
- Schneider: PLC via Modbus TCP/IP
- Schneider - Telemecanique: TSX 57 TCP/IP Master\*
- Siemens: S5 AS511 via TCP/IP Version 1.04
- Siemens: S5 AS511 via TCP/IP Version 2.02
- Siemens: S7 300/400 TCP/IP Master
- Siemens: S7 CP243 via ISO TCP/IP Master
- Siemens: S7 TCP/IP Master with TIA S7 Tag Import
- Siemens: TI 500 Series TCP/IP Master
- SNMP: SNMP Agent
- Toshiba: T2 PLC Master
- Unitronics: PCOM ASCII TCP/IP Master
- Unitronics: PCOM Binary TCP/IP Master
- Yamaha: RCX Series TCP/IP Master
- Yaskawa: TCP/IP AC Drives A1000
- Yaskawa: TCP/IP Master (Legacy Only)
- Yaskawa: TCP/IP Memobus Master
- Yaskawa: TCP/IP MP2000Ioc
- Yaskawa: TCP/IP Series 7
- Yaskawa: TCP/IP Universal SMC Master
- Yokogawa: FA-M3 PLC TCP/IP Master

## Serial Drivers

- <System>: Generic Program-Thru
- <System>: PPP and Modem Client
- <System>: PPP and Modem Server
- <System>: Raw Serial Port
- <System>: SMS via GSM Modem
- <System>: Virtual Serial Port
- ABB: COMLINK Master
- ABB: TotalFlow Master
- AC Tech: Simple Servo
- Adam: 4000 Series Modules
- Allen-Bradley: DF1 Master
- Allen-Bradley: DH485 Master
- Allen-Bradley: Native Tag Addressing
- Allen-Bradley: Ultra 3000
- Alpha Gear: Ternary
- Alstom: ALSPA Master via SNP
- Alstom: GEM80 ESP J/K Master
- Alstom: GEM80 ESP J/K Slave
- Alstom: GEM80 ESP Program Port Master
- Animatics: Smart Motor
- Applied Motion: SCL
- Automation Direct – Koyo: Do-more PLC
- B&R: Mininet Serial Driver
- BACnet: MS/TP Master\*\*
- BACnet: MS/TP Slave\*\*
- Baldor: Mint Host
- BETA LaserMike: LaserSpeed
- BETA LaserMike: LaserSpeed Final Length Mode Slave
- Bristol Babcock BSAP: BSAP Serial Slave
- Bristol Babcock BSAP: Serial
- Caterpillar: Data Link Monitor 1.0\*
- Contrex: M(L)-Trim/ML-Drive
- Contrex: M-Rotary/M-Cut
- Control Techniques: Mentor II Master
- Cruisair: Temperature Controller
- CTC: 2000 Series Master
- CTI: 25xx CAMP Master
- CTI: NITP Serial Master
- Danfoss: VLT/FC Series
- Dri-Air: ADC\*
- Dupline: Mastergenerator via Modbus
- Eaton: ELC Master
- Elmo: Elmo Drives
- EMCO: FP-93
- Emerson: ER3000\*
- Emerson Process: FloBoss via ROC Protocol
- Emerson - Control Techniques: Quantum
- Eurotherm: BISYNCH ASCII

- EZ Automation: EZ Master
- Fatek: PLC
- Festo: FPC, IPC, FEC, Series Controller
- FlowCom: Master
- Galil: Serial Driver
- Garmin: NMEA-0183
- GE: SNP Master
- GE: SNP-X Master
- Giddings and Lewis: C/E Controller
- Hardy Instruments: Hardy Link
- HBM: AED/PW/FIT
- Helectronic: Controller\*
- Hitachi: Hitachi H Series
- Honeywell: IPC620
- ICP DAS: DCON Serial Master
- IDEC: Micro 3 Series/ONC
- IFM: ASI Master via CoDeSys SP
- IMO: G Series Loader Port
- IMO: K Series Loader Port
- IMO: PLC-CNET
- Indramat: CLC Master
- Intelligent Actuator: Robocylinder/E-Con
- Intelligent Actuator: XSEL
- InUSA: SCI-TURBO L\*
- Ircon: Modline
- Johnson Controls: Metasys N2 Slave
- Julabo: Circulator Head
- KEB: DIN66019II Master
- KEB: DIN66019II Slave
- Keltec: Power Supply\*
- Keyence: KV Series
- King: KingBus ASCII
- Klockner Moeller: PS4-201
- Kollmorgan: AC Drives
- Krohne: Flowmeter IFC020D
- Laetus: Barcode Scanners
- Lenze: LECOM-A/B Master
- LG-LS Industrial Systems: Master-K via CNET
- Maguire: MLAN
- Matsushita: FP Series
- MicroMod: Extended Modbus
- MicroMod: Micro-DCI
- Mitsubishi Electric: A/Q/FX Series - MELSEC
- Mitsubishi Electric: FX Series
- Mitsubishi Electric: MELSEC 4 Slave
- Mitsubishi Electric: MELSERVO
- Modbus: ASCII Slave
- Modbus: Device Gateway
- Modbus: RTU Monitor
- Modbus: RTU Slave
- Modbus: Universal Master
- Motrona: LECOM Master
- MP Electronics: GTI Series and Similar
- MTS: DDA Master
- MTS: DDA Slave
- MTS: Modbus Master
- Omni Flow: Modbus Master Version 1.03
- Omni Flow: Modbus Master Modicon Compatible Version 1.01
- Omron: G9SP-Series
- Omron: Master via FINS
- Omron: Series C PLC
- Oriental Motor: Motor Drive\*
- Pacific Scientific: 830 Master
- Panasonic - Matsushita: FP Series - FP MEWTOCOL-COM
- Panasonic - Matsushita: FP Series - MEWTOCOL-DAT (Binary)
- Parker: Acroloop Motion Controller
- Parker: Compumotor 6K Master
- Pason: WITS
- Phoenix Contact: nanoLC
- PLC Direct Koyo: DirectNet
- PLC Direct Koyo: K Sequence
- PQ Systems: TERN Controller\*
- QuickSilver: Quicksilver Master
- Red Lion: Big Flexible Display

- Red Lion: Little Flexible Display
- Red Lion: Plant Floor Marquee
- Red Lion: RLC Instrument
- Rexroth Indramat: Ecodrive
- Rexroth Indramat: SIS
- Richards-Wilcox: Intelligent Storage Systems\*
- Schneider: PLC via Modbus
- Schneider - Telemecanique: Uni-Telway Master
- Schneider - Telemecanique: Uni-Telway Slave
- SEW: MOVILINK A Master
- SEW: MOVILINK B Master
- Siemens: S5 via AS511 Version 1.04
- Siemens: S5 via AS511 Version 2.02
- Siemens: S7 via MPI Adaptor
- Siemens: S7 via PPI Version 1.02
- Siemens: S7 via PPI Version 2.00
- Siemens: TI-500 Series Version 1.03
- Siemens: TI-500 Series Version 2.00
- Siemens: USS Drives
- SMA: Data Master
- SMC: LC8
- SPI: Tributary Station
- Square D: SYMAX
- SSD Drives: 590 (Old Style)
- SSD Drives: 590+
- SSD Drives: 631
- SSD Drives: 635/637
- SSD Drives: 690+/650v
- Stiebel Eltron: WPMII
- Toshiba: Series PLC
- Toshiba: Tosvert Inverter\*
- Unitronics: Master
- Unitronics: PCOM ASCII Master
- Unitronics: PCOM Binary Master
- Yamaha: RCX Series
- Yamaha: TS Series
- Yaskawa: AC Drives A1000
- Yaskawa: FSP Drive
- Yaskawa: Legend/SMC 3010
- Yaskawa: MP Series Controller
- Yaskawa: NS600 Indexer
- Yaskawa: Series 7 Inverters
- Yaskawa: SGDH
- Yaskawa: Universal SMC
- YET: Xtra Drive
- Yokogawa: FA-M3 PLC Master

## Cellular Modem Card

- PPP and Modem Client
- PPP and Modem Server
- SMS via GSM Modem

## CAN Interfaces

- 3 Point Solutions: 3PS Network Protocol
- Boulder Wind Power: 29-bit CAN Port
- CAN: Generic 29-bit Identifier
- CANOpen: Baldor SDO Slave
- CANOpen: PDO Slave
- CANOpen: SDO Master
- CANOpen: SDO Slave
- Dometic: AirNet CAN
- Parker: IQAN
- PQ Systems: TERN Controller\*
- SAE: J1939

## DeviceNet Interfaces

- Predefined Group 2 Server Version 1.01
- Predefined Group 2 Server Version 2.00

## MPI Interface

- Siemens: S7 300/400 Master

## Profibus Interfaces

- Profibus-DP (Type M)
- Profibus-DP (Type S)

\* Driver in Crimson 2 only.

\*\* Not supported on Kadet models.

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