

CITY OF CONWAY

1201 Oak Street

Conway, Arkansas 72032

Invitation and Bid 2009-047

Electronic Equipment for Conway Street Department

INVITATION

TO THE VENDOR ADDRESSED:

Bidders are invited to furnish the items listed herein in accordance with the terms and conditions attached. Sealed bids must be in the hands of the Mayor not later than **10 am, November 4th, 2009** at which time all bids will be opened and read. Unsigned bids will be rejected. Successful bidders will receive purchase order within 30 days after the opening date shown above.

Item No. 1- Video Server equal to Axis 241 Q Video Server as furnished by EYE-on Technology and conforming to the attached specification.

	Unit Price		Total Amount Item 1
Amount Bid For Item No. 1	60 Each @	\$ _____	\$ _____

Item No. 2 - Serial to Ethernet Port Server equal to Digi port two port server Model 70001918 as furnished by B&B Electronics.

	Unit Price		Total Amount Item 2
Amount Bid For Item No. 2	60 Each @	\$ _____	\$ _____

Item No. 3 - Four port managed switch equal to a Garrettcom Magnum 6KQ6-AC as furnished GarrettCom, Inc. Fremont, CA.

	Unit Price		Total Amount Item 3
Amount Bid For Item No. 3	60 Each @	\$ _____	\$ _____

Total Amount Bid (if all three Items are bid – Optional Information) \$ _____

Bidder may bid on either Item No. 1, Item No. 2, Item No 3 or combinations of the items. The award of the bid will be based on bid submitted for Item No. 1, Item No. 2, Item No. 3 or combination of these items as deemed in the best interest of the City of Conway.

NOTE: Bid amount shall include all applicable taxes, fees, freight and delivery cost.

SEE ATTACHED SPECIFICATIONS and

Note that equipment must be confirmed to perform the required function by the City of Conway Street Department prior to acceptance of the equipment as conforming to the attached specification.

For further information regarding the specifics of this equipment and approval of alternative equipment specifications contact Alan Alvey at Conway Street Department, 100 East Robins Conway, Arkansas, 72032, 501-450-6165, Fax 501-513-3566 or e-mail alan.alvey@cityofconway.org.

This Bid Shall be submitted no later than the above referenced date to:

Mayor's Office Attention: Felicia Rogers
Conway City Hall
1201 Oak Street
Conway, AR 72032.
Phone 501-450-6110

The bid shall be enclosed in a sealed envelop with the name of the bidder, bid number, equipment or material being bid and date and hour of opening shown thereon.

BID No. 2009-047

TO THE MAYOR:

We hereby agree to furnish the items or item quoted at price set opposite each item. We further certify that we have read the terms and conditions stated on the reverse side of this page and that our quotation is submitted in accordance therewith.

FIRM NAME: _____ BY: _____

ADDRESS: _____ TITLE _____

_____ DATE _____

Unsigned bids will not be considered

CONDITIONS

1. **ACCEPTANCE AND REJECTION:** The City of Conway (reserves the right to reject any or all bids, to accept bids in whole or in part (unless otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the City of Conway.
2. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.
3. **BID BONDS AND PERFORMANCE BONDS:** If required, a **Bid Bond** in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. **Personal and company checks are not acceptable as Bid Bonds.** Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by CITY OF CONWAY or fails to honor their bid. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a **Performance Bond** in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a guarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. **Personal and company checks are not acceptable as Performance Bonds.** In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company authorized to do business in Arkansas, and must be signed by a Resident Local Agent licensed by the Arkansas State Insurance Commissioner to represent that surety company. Resident Agent's Power-of-Attorney must accompany the surety bond. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U. S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company.
4. **TAXES:** The CITY OF CONWAY is not exempt from Arkansas State Sales and Use Taxes, or local option city/City of Conway sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the CITY OF CONWAY as an addition thereto, and should be added to the billing to the CITY OF CONWAY. The CITY OF CONWAY is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the CITY OF CONWAY.
5. **"ALL OR NONE" BIDS:** Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.
6. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.
7. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.
8. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.
9. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.
10. **SAMPLES AND LITERATURE:** Samples or technical literature must be provided within 14 days of CITY OF CONWAY request unless CITY OF CONWAY extends time. Failure to provide samples or literature within this period may cause bid to be rejected. When required, samples of items must be furnished free of charge, prior to or after the opening of bids, and, if not destroyed, will be returned upon request at the bidder's expense. Each individual sample must be labeled with bidder's name and item number. Request for return of samples must be made within 10 days following submission of sample. Samples from successful bidders will be retained for comparison with items actually furnished.
11. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.
12. **BACKORDERS OR DELAY IN DELIVERY:** Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the CITY OF CONWAY, as soon as possible, of the reason for any delay and the expected delivery date. The CITY OF CONWAY has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.
13. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by CITY OF CONWAY after delivery. Default in promised delivery or failure to meet specifications authorizes the CITY OF CONWAY to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.
14. **ETHICS:** *"It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business."* (Arkansas Code, Annotated, Section 19-11-708).

ACCEPTANCE (City of Conway Use Only)

Bid No. # _____ Accepted as to items numbered _____

Date _____ By _____

City of Conway Mayor's Officer

City of Conway, Arkansas
Bid No. 2009-047
Traffic Signal System Equipment Specifications

Item No. 1 - Video port server encoder

- video server/encoder capable of mpeg-4 and motion jpeg encoding at 4cif:704x480(ntsc) and 704x576(pal)
- must do 30/25 (4cif) using 1 channel and 30/25(cif) using 4 channels in jpeg.
- 21/17 (4cif)using 1 channel and 20/17 (cif) using 4 channels in mpeg4
- must have 4 bnc composite inputs , two-way audio.
- Alarm in and out 4/4 motion detection audio detection and tampering alarm.
- Ptz support.
- Multi-level password
- ip filtering
- https encryption and 802.1x IEEE compliance.
- Network must meet IPv4/v6,qos
- must support rs232 and rs485 connections and must be a stand alone version.

Miscellaneous Parts:

- Cables and power supplies must be included for each device including
- 6 foot bnc to bnc male patch cables for CCTV and video applications (4 cables for each video encoder)
- BNC adaptors one male to two female tee or right angle adaptors (4 for each video encoder)
- Power supplies for each device as specified in the bid

Item No. 2 - Serial to Ethernet Port Server equal to Digi port two port server Model 70001918

- **Management** HTIP/HTTPS, CLI, SNMP (read/write), Digi Port Authority - Remote management diagnostics and auto-discovery tool
- CE, FCC Part 15 (Class A), EN55024, EN55022 Claus A, AS/NZS 3548, VCCI V-3/99 .05

Protocols	UDP/TCP, DHCP/RARP/ARP-Ping for 1k Address assignment, Extended Telnet RFC 2217, Telnet, Reverse Telnet, Modbus to Modbus/TCP protocol conversion support, PPP
Security	SSHv2, SSL/TLS
Software	Patented device-initiated RealPort® COM port redirector
Status LEDs	Link, Activity, Power, Status
Operating Systems	AIX, HP-UX, Linux®, SCO® OpenServer™ 5, SCO® OpenServer™ 6, Solaris™ Intel, Solaris™ SPARC, Windows XP®, Windows Server® 2003, Windows Server® 2008, Windows Vista®; Note: TCP/UPD Socket Services are operating system independent
Dimensions (Lx W x 0)	5.25 in x 3.33 in x 0.95 in (13.34 cm x 8.46 cm x 2.42 cm)
Weight	2.25 oz (64.00 g)
Other	Full modem and hardware flow control, Modem emulation, knit buffering, RJ-45/D8-9F crossover cable included for optional serial configuration, Wall mount kit included

Ports iWygw	1 RS-232/422/485 RJ-45; Up to 230 Kbps 2 95-232/422/485 93-45; Up to 230 Kbps 4 RS-232/422/485 93-45; Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, throughput; Signal support for TXD, RXD, 9Th, throughput; Signal support for TXD, RXD, RTS, CTh, 0TR, 059, DCII CTS, DTR, DSR, DCII CTS, DTR, DSR, DCD
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City of Conway, Arkansas
 Specifications for Bid 2009-04

Ports	1 93-45 10/100 Mbps 10/100Base-T (auto-sensing); Full or half duplex ;1
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Power Input	9-30VDC
Power Supply	12VDC extended temperature power supply sold separately; Bare-wire "pigtail" power connector included
Power Consumption	Typical: 4 W; Max: 6 W
Surge Protection	4 kV burst (EFT) per EN61000-4-4, 2 kV surge per EN61000-4-5
Operating Temperature	-30°C to +74°C (-31°F to 165°F)
Storage Temperature	-40°C to +85°C (-40°F to -185°F)
Relative Humidity	5% to 95%/a (non-condensing)
Ethernet Isolation	1500VAC mm per IEEE802.3/ANSI X3.263
Serial Port Protection (ESD)	±15 kV air discharge and ±8 kV contact discharge per IEC 100-4-2 ;1
Safety	UL/CUL60950, IEC60950, CB

Miscellaneous Parts:

- Cables and power supplies must be included for each device including
- 6 foot bnc to bnc male patch cables for CCTV and video applications (4 cables for each video encoder)
- BNC adaptors one male to two female tee or right angle adaptors (4 for each video encoder)
- Power supplies for each device as specified in the bid

Item No. 3 - Managed Ethernet switch equal to Garrettcom Magnum 6KQ6-AC

- RJ-45 ports: 100 or 10 mb speed
- Full or half duplex mode
- Per port individual determined 10/100 auto-negotiating and auto cross with up to 8 ports
- PoE ports
- RJ-45 power sourcing per IEEE 802.3af
- Power on data pair
- Gigabit ports 1000 mb: configurable standard 10/100/1000mb copper or sff transceiver modules for sx,esx,lx,zx, up to 2 gigabit ports
- Processing type: store and forward with IEEE 802.3p QOS and IEEE 802.3x. with all ports non-blocking. System aggregate forward and filter rate 4.76M pps. Address table 4K nodes, with address aging time of 300 seconds typical.
- Packet buffers of 240 kb for 10/100 and 120kb for 1000mb
- Latency 6us + packet time max 9TX – TX, TX – FX, FX – FX, TX – G, G – G,)

Network standards:

- IEEE 802.3, 802.3 ab, 802.1p:100base-TX,FX;100base-SX,LX,ZX
- Auto-negotiation and auto-cross on 10/100 TP and PoE, IEEE 802.3u
- All 100 mb ports use fast Ethernet rules
- 1000 mb use Gigabit rules

Operating environment

City of Conway, Arkansas
Specifications for Bid 2009-04

- Iec 60068 operating temp per test type -40 to 195 f. (-40 to 80 c)
- UI 60950 and component parts rating -40 to 140 f (-40 to 60 c)
- Storage -60 to 210 F (-50 to 100 c)
- Relative humidity 5% to 95% 9non-condensing)
- Altitude -200 to 13,000 ft (-60 to 4,000m)

Network cable connectors:

- 1000Mb copper ports 10/100/1000Mb auto-negotiating, Cat5e & 6 UTP/STP
- 100Mb Copper and PoE: cat5 UTP/STP: 10Mb: cat3,4,5 UTP/STP

AC power supply (internal)

- AC power connector: IEC-type male recessed
- Power input, AC: 100 to 240 VAC, 47 to 63 hz(auto ranging)

Alarm contacts:

- Form C and NC indicating internal power, and NC software controllable

Mechanical:

- Enclosure: high strength aluminum for heat-sinking. Vertical panel-mounting brackets included. Console port: DB9
- Enclosure ingress protection rating: IP52, per IEC 60529, and nema-3,3x
- Cooling method: convection, fully enclosed aluminum case used as heat sink, designed for vertical mounting, no fans
- Dimensions of 6.85 in H x 7.50 in W x 2.0 in D in vertical panel-mount

LED Indicators(two sets) per RJ-45 ports

- LK: steady on when twisted pair is operational
- ACT: ON with port activity
- 100/10 on=100Mb speed, off= 10Mb
- Port-side LED set only F/H: on for full duplex, off for half duplex
- PoE only, port-side only PoE: on for power to PD device. Note LK/ACT port becomes steady on for link, blinking for activity.

LED indicator for Gb port

- LK: steady on when link is operational
- ACT: on with port activity
- 1000Mb on=Gb speed
- (Top-side LED set only, copper only) 100/10 on=100Mb speed, off=10 Mb
- Port-side LED set only, copper only) 3 LEDs indicate Gb, 100 Mb or 10 Mb

Agency Approvals and standard compliance:

- UL listed (ul60950) cUL, CE, Emissions meet FCC part 15, class A
- IEC 61850 EMC and operating conditions class C for power substations
- IEEE 1613 class 2 environmental standard for electrical substations
- NEBS L3 and ETSI compliant
- NEMA TS-2 & TEES for DC-powered and PoE-powered traffic ctrl eqpt.

Warranty: 3 Years

Miscellaneous Parts:

- Cables and power supplies must be included for each device including
- 6 foot bnc to bnc male patch cables for CCTV and video applications (4 cables for each video encoder)
- BNC adaptors one male to two female tee or right angle adaptors (4 for each video encoder)
- Power supplies for each device as specified in the bid