



Corporate Office:

TCIC, Inc. 13005 16th Ave N, Suite 500, Plymouth, MN 55441

Phone: 763-557-6648

Fax: 763-557-6408

Toll Free: 886-472-6648

Milwaukee Area Office:

TCIC, Inc. N60 W38408 Blackhawk Drive, Oconomowoc, WI 53066

Phone: 414-750-8457



- Wireless IO and Serial data radios



- CDMA & GSM Cellular Modems



- Licensed and Unlicensed Radios
- VHF\220\UHF\900, 6¼, 12.5, 25, 50kHz channels, 1-10 watts
- Serial and Ethernet
- Telemetry, Cellular, Fixed, Mobile with WiFi and GPS



- Licensed \ License free wireless
- Ethernet \TDM interfaces
- 2.4 / 4.5 / 4.9 / 5.2, 5.4, 5.8 / 6 / 7 / 8 / 11 / 13 / 15 / 18 / 23 / 38GHz Freq Bands
- Capacity (< 100Mbps to > 500Mbps)



data communications

- Airmux 2.4, 4.9, 5.8Ghz Wireless
- Ethernet Services over (Fiber, DSL, E1/T1, E3/T3, SDH/SONET, ATM)
- Pseudo-wire over Ethernet (TDM/ATM)



- Secure Remote Connectivity
- Industrial VPN Routers
- Cellular, Dial-up, LAN
- Industrial M2M Gateway
- Serial to Ethernet Gateway
- Multi-Protocol Compatibility



- Radio Path Analysis and Site Surveys
- FCC Licensing Coordination
- RF Spectral Analysis
- Application Assistance



- Siemens 500/505 series PLC Replacements: Including CPU, Rack, Power Supply, I/O and Com modules



- PLC Programming Software for TI505\CTI, Square D and Modicon



- Citect SCADA Software & Historian
- Switch2Citect conversion tools



- Xpress web based HMI Panels
- Interact HMI Panels
- InteractX for Windows HMI Software
- Flat Panel Monitors / Industrial PC's
- Factory Displays (Andon\Marquee)



- OPC Servers for PLC's



- Managed / Unmanaged Switches
- Ethernet and Fiber (10\100\Gigabit)
- Wireless 802.11 Ethernet Radios
- Media Converters



- Managed / Unmanaged Switches, Ethernet and Fiber (10\100\Gigabit)
- Industrial Telephone Modems
- Ethernet I/O Modules, RTU / IO Controllers
- Kevlar Industrial Ethernet Cable



- OIT, HMI, ELC PLC and IO
- VFD's and MCC's
- Pushbuttons, Sensors, Soft Starts



- Surge Protection devices for Service Entrance, Panels, I/O and more



- Frequency Inverters (VFD's)
- Motion Controllers and Servos
- Motors, Gearboxes & Geared-Motors
- Brakes and Clutches



- Linear Motion Systems
- Actuated Linear Guides
- Aluminum Machine Framing



- Brightness\Contrast Vision Sensors
- Color\Luminescence Vision Sensors



- Industrial Keyboards and Mice



- Safety Light Curtains



- Christensen Flat Panel Monitors
- Intrinsic ally Safe Solutions
- Purge and Pressurization
- Signal Conditioning



- Windows Based Alarming for SCADA



- DeviceNet, Profibus, ControlNet, AB Network Interface cards, ASi, CanOpen, CC Link, InterBus-S, ModbusPlus, Reliance AutoMax, WorldFIP interfaces
- I/O Simulation Software



- Custom Industrial Computers (Rack-mount/Shoebox/Embedded)



- Encoders (Linear\Rotary)
- DC Positioning Drives
- Laser Distance Measurement



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Communications & Networking

- Industrial VPN Routers
- Remote Machine Access
- Cellular Modems
- Telephone Modems
- Leased Line Modems
- Ethernet Modems
- Unlicensed Ethernet and Serial radios
- Licensed Serial radios
- High Speed Wireless
- Managed\Unmanaged Ethernet and Fiber Switches
- Media Converters
- OPC Servers
- Protocol Converters
- ASi Bus
- DeviceNet
- Profibus
- ControlNet
- CanOpen
- CC Link
- InterbusS
- WorldFIP
- Reliance Automax
- AB DH+R IO
- AB DH485
- AB Ethernet/IP
- Modbus
- ModbusTCP
- Modbus +
- Sensor Cordsets
- Profibus Connectivity
- DeviceNet Connectivity
- Kevlar Ethernet Cable
- Indust. Ethernet Connectors
- Pseudo wire over Ethernet
- Ethernet services over Fiber, DSL, E1\T1, E3/T3, ATM, SDH/SONET
- Antenna Towers and Masts
- Antennas and mounts
- Antenna Cabling
- Antenna Connectors
- Antenna Grounding

TCIC Services

- Software radio path analysis
- On-site radio survey
- FCC License Coordination
- RF Spectral Analysis
- MDS Triple Certified Staff
- Citect Certified Trainer
- Application Assistance

Software

- OIT Based HMI
- Web Based HMI
- Windows Based HMI
- SCADA Software
- SCADA to SCADA conversion Tool
- Reporting\Database connectivity Software
- SCADA Alarming Software
- Plant Metrics Software

Computer Peripherals and Displays

- Flat Panel Monitors
- Industrial PCs
- Rackmount PCs
- Shoebox PCs
- Embedded PCs
- Custom PCs
- Operator Interface Panels
- LED Andons and Marquees
- Process Control Board
- Industrial Keyboards & Mice

Vision Inspection

- Sensors for Vision Inspection of Brightness, Contrast, Color and Luminescence

Motion Control \ Drives

- Variable Frequency Drives
- Motor Control Centers
- Soft Starts
- Motion Controllers
- Servo Motors
- AC Motors
- AC Geared Motors
- Stepper Motors
- Gear Boxes
- Brakes and Clutches

Safety

- Light Curtains

Remote Access

- Industrial VPN Routers
- Ethernet Modems
- Remote Machine Access
- Remote Data Collection
- M2M Solutions

PLC & I/O Controllers

- Ethernet IO Modules
- RS485 Modbus Modules
- Linux IO Controllers
- CTI and TI 505 PLC programming software
- Square D SY/MAX PLC Programming software
- Modicon PLC Programming Software
- Siemens S5 PLC programming software
- Siemens TI505/TI500 PLC replacement parts

Diagnostics/ Simulation

- PLC IO Simulation
- TI505 PLC Code Simulation
- DeviceNet Diagnostics Tools

Surge Suppression

- IO Protection
- 120\240\480VAC Protection
- Service Entrance Protection
- Telephone Modem Protection
- Ethernet Protection
- Coax (Wireless) Protection

Sensors

- Proximity
- Distance
- Motion
- Level
- Vibration
- Fork
- Ring
- Color
- Label
- Tube
- Absolute Encoders
- Linear Encoders
- Rotary Encoders
- Laser Measurement

Purged Systems

- Purge and Pressurization
- Intrinsically Safe Barriers
- Packaged Solutions