



Beyond The Edge Networks

IE8000 Industrial LTE Controller



BTE's IE8550 is the industry's only LTE gateway platform built specifically for rapid, end-to-end deployment of all industrial monitoring and control solutions. The IE8550 provides the combined capabilities of a traditional PLC and SCADA server on a single platform, communications gateway included. The BTE IE8550 is an industrial rated hardware platform with a wide-range of communications and control interfaces, second to none in the industry.

The IE8550 steps ahead of the competition as a complete solutions development platform with the addition of BTE's Automation Control Application. The on-board, web-based application makes it a powerful and intelligent machine that enables it to bring alarms, reports and control all the way to your fingertips, on any mobile device, without the need for any custom software development.

- **LTE coverage on all bands for North American carriers with 3G/2G fall-back**
- **On-board, web-based automation application for developing monitoring and control solutions**
- **Integrated interfaces for analog, digital, hex, and pulse information processing**
- **Modbus Client (master) and Server (slave) configurations**
- **Built-in digital input, digital output, and analog input**
- **Network connectivity over USB, Ethernet, and multiple serial interfaces**
- **Dual-SIM support for automatic failover between SIMs (carriers)**
- **Automatic, SIM-based, carrier provisioning**
- **GPS for asset tracking**
- **SMS/Email Alarms**
- **On-board dashboard display with gauges, indicators, graphs and charts**



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IE8550 Specifications



CELLULAR TECHNOLOGY	<p><u>4GLTE Category 3</u> 1900(B2), AWS(B4), 850(B5), 700(B13), 700(B17), 1900(B25)</p> <p><u>3G WCDMA</u> 2100(B1), 1900(B2), AWS 1700/2100(B4), 850(B5), 900(B8)</p> <p><u>3G CDMA 1xRTT/EVDO</u> 800(BC0), 1900(BC1), 800(BC10)</p> <p><u>GSM/GPRS Fallback</u> GSM 850, EGSM 900, DCS 1800, PCS 1900</p> <p>Multi-Carrier, Auto-Configuring Dual-SIM 2FF DL MIMO/Rx Diversity Support</p>
APPROVALS	FCC, IC, PTCRB Verizon, AT&T, T-Mobile, Sprint, US Cellular, Bell, Rogers, Telus
POSITION LOCATION	GPS, GLONASS
HOST INTERFACES	<p>10/100 Ethernet (RJ45)</p> <p>1 RS-232 (Terminal Block)</p> <p>2 RS-485 (Terminal Block)</p> <p>1 Full-Speed USB (Type A)</p> <p>1 High-Speed Micro-USB OTG</p>
INPUT/OUTPUT	<p>1 Digital Input</p> <p>1 Digital Output</p> <p>1 Analog Input</p> <p>* Expandable with IE881201S I/O Module</p>
MEMORY	<p>128 MB DDR2 RAM</p> <p>256 MB SLC NAND Flash</p> <p>1 microSD Slot (Externally Accessible)</p>
PLATFORM	<p>Linux 3.16 Operating System</p> <p>Atmel ARM9 Processor</p> <p>BTE Web Manger 2.0</p> <p>BTE CloudTrak Services</p> <p>BTE Automation Application</p>
POWER	<p>Input: 9 - 24 VDC</p> <p>Power: 190mA (Typical)*</p> <p>*Ethernet not connected - varies with signal level</p>
ENVIRONMENTAL	<p>Operating Temperature: -30 to +70 °C</p> <p>Humidity: 90% Non-Condensing</p>
DIMENSIONS	5.48L x 4.72W x 1.45H (inches)
WARRANTY/SUPPORT	3 Year Standard Warranty

ANALOG/PULSE/DIGITAL PROCESSING

Signal interfaces allow for quick integration of wet or dry contacts and solid state, 4-20mA, 0-5V, 0-10V signals.

MODBUS TCP AND RTU PROTOCOL

Supports both protocols and is configurable as a Client (master) and/or Server (slave)

AUTO-GENERATING GAUGES, INDICATORS AND GRAPHS

Gauges and indicators automatically generates based on the configured application. Logs and history also generate graphs and charts for quick analysis.

SMS AND EMAIL ALARMS/REPORTS

System status, dynamic I/O, MODBUS, and sensor information trigger notifications to alert of installation status.

RS234/485 TO TCP/UDP PAD

Advanced TCP/UDP PAD for serial communications a wide range of legacy equipment.

CLOUD-BASED ASSET MANAGEMENT

Self-provisioning devices report to BTE's CloudTrak for total visibility of assets; including their location and current status of the installation.