



Remote Wireless Monitoring & Control Software, Hardware and System as a Service (SAAS)

2016

ThinkBoxx i7000 IP Cloud Backhaul System unit information coming soon

ThinkBoxx® Systems

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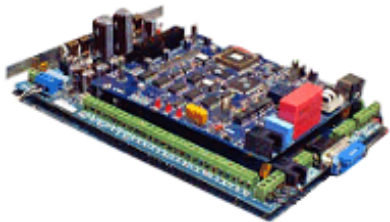
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The screenshot displays a comprehensive monitoring dashboard for a ThinkBoxx system. It includes sections for Site Alarms, Power, Base Stations, Environmental data, Device Status, Tower Lights, and Battery Voltages. The interface uses a color-coded system with red and green indicators to show the status of various components.

THINKBOXX PRODUCTS - Hardware, Software and Options

ThinkBoxx ST3000 Controller System

Below: The ThinkBoxx ST300 Motherboard with ST330 Telephone Card and heat sink plate. These boards mount into the housing shown.



Above: The ThinkBoxx ST3000S ThinkBoxx Controller Unit - Security Wall Mount Housing

- 16 Programmable Inputs (expandable to 80 Programmable Inputs)
- 8 Digital Relay Outputs (expandable to 40 Outputs)
- Lead Acid Backup battery and onboard charger
- On-board lithium battery
- Tamper switch options
- Auxiliary Power outputs at 13VDC for driving optional devices
- Horn and siren outputs
- RS232 x 2 Communications port
- RS485 x 2
- X10 Power Line Carrier connection
- 19" Rack, wall mount or other casing options
- Input Analog 0 - 30VDC
- 4 - 20mA input
- Temperature C & F
- Digital Relay outputs
- Protected Loop
- Ethernet option
- 3G GPRS Data Modem Option



Above: The ThinkBoxx ST3000R ThinkBoxx Controller Unit - Rack Mounting

Below: The ThinkBoxx ST3000W Wall mount



ThinkBoxx ST3000 Housings

ST3000R - 19" Rack Mount
ST3000W - Wall Mount
ST3000S - Security Mount

The ThinkBoxx Control & Monitoring System is housed in a steel, powder coated rack mounted lockable cabinet. Should wall mounting be your preference then the front panel is not required.

This cabinet has a hinged lid and comes with convenient cable knockouts for cable entry in the rear panel.

When the cabinet is wall mounted the knockouts are located on the right hand side and there is also additional knockouts in the base panel so cables can be run directly into the ThinkBoxx from the wall cavity so all cables are hidden away from tampering.

This is excellent for Security Installations and buildings where cosmetics are important.

- ST3000 Controller with 16 A/D inputs & 8 outputs
- ST029 Controller Backup Battery (optional)
- Wall Mounted Lockable Cabinet
- ST390-1 External Power Pack (117V/16VAC)
- This unit is expandable to 80 inputs and 40 outputs



ThinkBoxx ST3000 Housings IP65/67 Water Proof Housings

Where a waterproof solution is needed, such as Agricultural, Pipelines or any remote applications, we provide a high quality lockable waterproof casing to International IP65 or IP67 Standard. Available also in Powder Coated finish or in Stainless Steel.

Price is subject to size requirements.

Please contact us for details.



ThinkBoxx ST317 I/O Expansion Module

Each ST317 fits inside the ST3000R or ST3000W housing.

The card has a mirror image of the inputs available on the ST300 Motherboard. Comes with 16 inputs (8 Digital & 8 Analog) programmable, and 8 Relay Dry Contact Digital outputs.

Note:

A maximum of 4 cards can be fitted to the motherboard for example: 4 expansion cards or if you use a ST330 Telephone card then you can only fit 3 expansion cards. Also any more than 2 extra cards require an expansion ribbon cable ST 450 Includes expansion cable.



Above: The ThinkBoxx ST317 I/O Expansion Module

ThinkBoxx ST330 Telephone/Modem/Dialler/Voice Card

The ST330 interface is an Approved interface card that plugs directly onto the ThinkBoxx motherboard. It performs many tasks such as being a landline modem for remote data transfer.

The ST330 can also be programmed as a dialer to call a computer, and/or a telephone and even a pager. It talks in a real recorded voice with dynamic menu and device details following the suggested keypad prompts over a Mobile or Standard telephone.

The technician or manager can be informed of alarms in real time over the phone with values and alarm/device information. The user can remotely change the state of a device from the phone or at the Central Computer.

A remote laptop (with the correct codes) can access the ThinkBoxx System through this card allowing a live graphical picture of the remote sites with the event log and real time readings.



Above: The ThinkBoxx ST330 Telephone Module includes Programmable Dialer; Voice prompts with device readings and allows the user to switch devices on/off via the keypad of the mobile phone.

ST30G – 5G/4G LTE On-Air all the time Modem + Serial to Ethernet Conversion and Internet

This is a full Multi-Band 5G LTE On-Air all the time Cellular Data modem used to pass Alarms, Data and Events from the sites to the Cloud Data Base or direct to the Central Computer. Obviously Cellular Coverage is required for these to operate from each Site however each site can have different connections to allow remote connectivity to ThinkBoxx. The modem is connected directly to the ThinkBoxx System at each site which gives each site FULL internet connectivity at ALL times. Allows the site to have a Static IP Address, converts Serial to Ethernet which is then accessible via the Intranet/Internet and allows live data sessions with the each controller over the web. All Security codes are held by the management in SSL encryption.

A Data account with a Cellular provider is required and is relatively cheap for the small amount of data throughput.



Above: The ThinkBoxx ST30G LTE Modem External Antennas can be attached to increase coverage and range.

ThinkBoxx ST352A Keyless Entry Interface for Weigand devices (Card, Iris and Fingerprint Readers)

Weigand is the specification used by the Security Industry around the Globe. This is for interfacing many different brands and types of Access Control Devices such as Card Readers, Proximity Readers, Fingerprint Readers, Iris Readers and many other Security and Access Control Readers.

ThinkBoxx has just developed a brand new updated model with the latest protocols and codes.

This box allows for easy installation with TOTAL Remote and Automated Access Control of these devices. ThinkBoxx controls Who, Where and When people can enter into or leave a secure area. All card codes are held within ThinkBoxx allowing the system to control all of the security. These functions can be overridden remotely by a human or can be automated using Sencheck Software which updates all sites automatically. (See Software)



Above: The ThinkBoxx ST352a Weigand Keyless Entry Interface Housing.

ThinkBoxx ST007V Vertical Heavy Duty Terminal and Security Panel

ThinkBoxx LCD heavy duty serial Programmable Terminal & Keypad, Vertical mounting has a Large LCD backlit Screen and Keypad, fully programmable as a Security Keypad and Site Display Module.

The ThinkBoxx ST007 will display all device readings live such as Voltages, Forward and Reflected Power for Transmitter sites, Battery Backup Voltages, Site Access Control and System Event Data Log. The Panel can be fully programmed to control all devices and software scenarios at each site making the need for laptops and other computers redundant at the sites. This panel allows for Multiple User Pin Codes for entry into the sites recording the entry/exit times and identification of the person who entered the site.



Above: The ThinkBoxx ST007V Heavy Duty Terminal and Keypad Panel.

ThinkBoxx ST007H Horizontal LCD Terminal and Security Panel

ThinkBoxx LCD heavy duty serial Programmable Terminal & Keypad, Horizontal mounting has a Large LCD backlit screen and Keypad, fully programmable as a Security Keypad and Site Display Module.

The ThinkBoxx ST007 will display all device readings live such as Voltages, Forward and Reflected Power for Transmitter sites, Battery Backup Voltages, Site Access Control and System Event Data Log. The Panel can be fully programmed to control all devices and software scenarios at each site making the need for laptops and other computers redundant at the sites. This panel allows for Multiple User Pin Codes for entry into the sites recording the entry/exit times and identification of the person who entered the site.

The ST007H also has an attractive finish for office applications.



Above: The ThinkBoxx ST007V Heavy Duty Terminal and Keypad Panel.

ThinkBoxx Access Control Readers Proximity, Iris Scan, Fingerprint, Palmprint and Facial Recognition

Prices Start at \$150 for a Card Proximity reader and ranges upwards in price depending on the type of reader wanted.

ThinkBoxx utilizes the most widely used Security proximity protocol available called "Weigand". Almost every quality brand of reader in the world uses this protocol to interface to Access Control Systems. There is a range of these readers listed in the price list.

The software to configure the access control systems and the enrolment of users is built into the ThinkBoxx GUI Software. ThinkBoxx can control up to 64,000 users Controlling Access for Entry, Security and Times allowed, plus identify and log all users coming and going through to doors.

ThinkBoxx can be programmed with temporary codes for access also has the ability to remotely open doors at sites for those people

Please NOTE: All readers need the ThinkBoxx ST352a interface box attached to the ThinkBoxx motherboard. The connection is RS485 so many devices can be installed on the one RS485 Bus.



ThinkBoxx Remote Security, Surveillance Video & CCTV Systems:

Please ask for a Price for your unique application

The ThinkBoxx DVR supports plug-and-play installation and provides everyday protection for business environments. Users can receive clear videos and images captured by their system through mobile devices and PC networks.

- Real-time H.264 video compression.
- Quick backup to USB device.
- Real-time recording and live viewing in high resolution.
- Web Viewer for Remote Access and Control.
- Fan-less system delivers a virtually silent operation.
- 5G Mobile Viewing and Multiple Email notification.



Above: The ThinkBoxx 8 Channel CCTV System Kit. 32 Camera systems are available



ThinkBoxx ST505 Bi-Directional Power Coupler – – Pre Calibrated to Frequency

(Please order 1 per Base Station and 1 per antenna)

The ST505 Bi-Directional Coupler devices can be attached to any Radio Base Station to measure very accurate forward and reflected power in Watts or dBm.

These devices exhibit almost zero insertion loss, are totally non-invasive and are simply screwed in line on the coaxial antenna cable either before the combiner (or Duplexer) or after the combiner or both.

We suggest you order ones with a N Connectors male on one end and a female on the either end for easy connection.

There are 2 take-off points (RCA Connectors) from the Coupler to THINKBOXX's Analog inputs, one take-off delivering the forward power sample and the other for reflected power.

ThinkBoxx then calculates a quadratic equation every time the transmitter is on (PTT) giving accurate power readings to decimal level.

ThinkBoxx® supplies a small software package that enables technicians to calibrate these devices and to calculate the plug in numbers in the GUI (Graphic User Interface).

When these couplers are inserted in a system both before or after the combiner the ThinkBoxx system will automatically monitor EXACTLY what the performance and health is of each base station and antenna and making sure that the system is operating to its fullest design capability.

ThinkBoxx does not calculate VSWR readings on purpose because as VSWR is only a ratio of the two readings we feel that making the controller calculate meaningless readings is a waste of processing power.

No Base Station proprietary software can measure the VSWR accurately after the combiner because the combiner gives a perfect 50 ohm load to the Repeater and therefore gives a false reading regarding the antennas.

Should any alarm occur at any time ThinkBoxx® will inform the operators and at the same time can automatically switch to a Hot Standby or backup base station or antenna if so desired.



Above: The ThinkBoxx ST505 Bi-Directional Coupler

ThinkBoxx ST 1100 - Serial to Network & Ethernet Web Server with Internet Connectivity and Static IP Address

includes Board, Mounting Plate, Cable and Programming with TCP/IP Address

- Monitor and control ThinkBoxx over Ethernet or Internet
- RS-232, RS422 or RS-485 serial support
- RJ45 10Base-T/100Base-TX Ethernet Interface
- Configurable via internal web server, Telnet or serial
- 2 MB Flash ROM



Above: The ThinkBoxx ST1100 Internet Card also available in Metal box form.

Quickly Network Enable ThinkBoxx Equipment Allowing Remote Monitoring and Management from Anywhere in the world over the Internet

The ST1100-B Device Server can be quickly and easily set up to network-enable ThinkBoxx Controllers through the serial interface so it can be remotely accessed and controlled over the Net. This flexible product is designed to be integrated within the ThinkBoxx Controller housing and is suitable to applications such as factory machinery, security systems, heating and ventilation systems, Tower and Building Automation, Lighting controls and many other applications.

Using a method called 'serial tunnelling', the ST1100-B encapsulates serial data into packets and transports it over Ethernet. Serial tunnelling can be done in multiple ways:

Implementing the COM Port Redirector software simplifies the integration process by extending the functionality of (serial) COM port-based Windows® applications. It redirects application data destined for a local serial (COM) port on a PC over the Ethernet/Internet network and through the ST1100-B enabled device. Communications to and from the networked equipment is processed by the PC application as if it were from the local COM port.

By Using the ThinkBoxx Graphical User Interface (GUI) operators can remotely view, control and program the ThinkBoxx controller directly through the ST1100 over a LAN or via the internet/intranet.

ThinkBoxx ST 025 and ST 025E (Extended Range) Temperature Sensor - Standard and Extended Version

The ThinkBoxx Temperature Sensor is light and easy to install on to any surface. The calibration numbers are already set up in default within the Software so all you need to do is select in software if you want C or F degrees and ThinkBoxx does the rest. Connection is by 2 wires only into any Analog input. The ThinkBoxx inputs actually supply voltage to the sensor via the 2 sensing wires which means you do not need to run separate power wires.

- Sensing Accuracy Range: $\pm 1^{\circ}\text{C}$
- Temperature Sensing Range;
 - ST025 : 0°C to $+100^{\circ}\text{C}$ or 32°F to $+ 140^{\circ}\text{F}$
 - ST025E : -45°C to $+150^{\circ}\text{C}$ or -50°F to $+300^{\circ}\text{F}$
- Supply Current: $91.5\mu\text{A}$
- Supply Voltage Range: 4V to 30V



Above: The ThinkBoxx ST025
Temperature Sensor

ThinkBoxx Local or Cloud Data Base – “ThinkBoxx Mobility Plus Service”

ThinkBoxx offers a full Local or Cloud Data Base to all our customers. Port all of their information, Alarms and statistics directly to their own devices such as Ipad, Iphones, Blackberry's and Computers all over the Internet or Intranet on the fly.

Companies no longer are tied to the computer room as all of the information, Logs, Alarms and statistics are available over this portal to their PDA devices or Control Room all “Live”

Please ask our Representatives for pricing on this wonderful Data Base application. Please go to this link for a live view of a site.

www.demo.ThinkBoxx.net

Prices start for a low 0.30c per site per day

ThinkBoxx Software Modules

1. **ThinkBoxx GUI V 4.0.5** - Graphical User Interface (GUI) which is the Programming Tool and Monitoring Software package
2. **ThinkTrend NMS** – Network Management Software for NOC operation with Auto Polling, Mapping, Trending and Backup Software.
3. **ThinkGenius** – RF and Sensor Calibration software
4. **ThinkMessage Pro** – Full messaging and Alarm software – Sends emails, SMS and Pager messages to the correct person for a particular alarm
5. **ThinkCheck** – This is Global Update software for Card access. It allows the mangers to automate the removal or addition of access cards from each ThinkBoxx site in a network. Saves going to every site to do this task.
6. **SNMP V3** is also available for those who prefer Simple Network Management Protocol.
7. **DNP3 Protocol** is also available for those in the Utilities Industry such as Water. Oil and Gas Infrastructure.
8. **Android** Operating System is coming soon.

Please ask our representatives for Prices, Details and trial software.

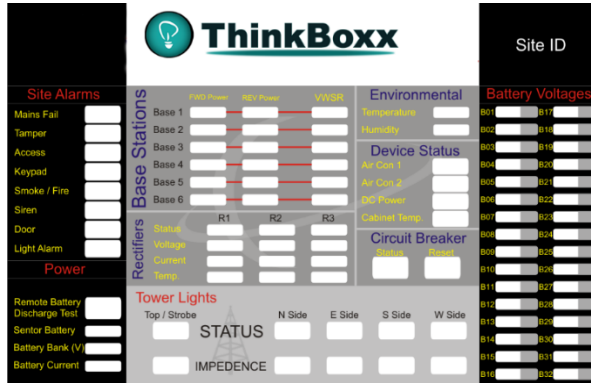
ThinkBoxx Manuals and Documents

All Documents, Brochures and Manuals are available for download from our website www.ThinkBoxx.com

Below: The ThinkBoxx GUI is fully customizable to suit any application.



ThinkBoxx Site and Network Software



Software Code	Description	Prices on Application
ThinkBoxx GUI STV4.0.5b	ThinkBoxx Graphical User Interface (GUI): This is ThinkBoxx’s main user interface software that drives the entire ThinkBoxx systems operation. Intuitive and completely Graphical, using the power of Windows 10. This software package is unique in the Industry and is easily and quickly programmable using our English Statement Scenario system that writes the software automatically with a click and shoot method.	Free to all customers. Limit One per customer see below.
ThinkBoxx GUI Extra Licenses Code STV4.0.5bE	ThinkBoxx Graphical User Interface (GUI): If you require extra licences for the ThinkBoxx GUI for other computers please add them to your order.	
ThinkBoxx First Site Programming fee Code ST-FSP	Initial 1 st site programming – This fee is initial factory setup for the first site. Includes Software Scenarios specified by the customer, GUI, Bitmap and Device setup plus Alarm and Event Log handling and testing.	
Extra Site Programming Code ST-ESP	All other sites if similar will be \$350 each. Bulk Site programming pricing is available upon request.	
ThinkBoxx Remote Data Base/CLOUD Code ST-DBase ThinkBoxx as a service	ThinkBoxx As A SERVICE is a remote database which can be used on any server, and can be a back to Control Room Monitoring as a 24H/7Day Service. Local or Remote it can also also be used through MS or Google or AWS Cloud. All sites report to this Database which can be also accessed by any web enabled device such as Ipad IoS, Android, Iphone, or PC Showing Real time GUI of any site.	
ThinkTrend NMS Code ST-TNMS	Remote Data Analysis/ Network Manager- This is a significant software package and is recommended for customers that have 10 sites or more as a service. ThinkTrend allows the Central Computer to schedule site polling to check for site logs and up to date information. ThinkTrend also collects the information from scheduled sites for Trending and Data analysis with Graphs and gives	

	<p>a complete view of the entire Network with Maps and live Graphics of all readings and Alarms.</p> <p>Includes Setup for the first 10 sites including Setup of ThinkTrend NMS, Maps, Icons, Communications setup to each site, Trending Software and Alarm Paging software setup as a full service.</p>	
<p>ThinkTrend NMS Extra Setup and Program Pricing</p> <p>Code ST-TNMSE</p>	<p>Extra site Setup of ThinkTrend NMS Sites including all extra site lists, Maps, Icons, communications setup to each site, Trending Software and Alarm Paging software setup.</p>	
<p>ThinkBoxx Air Message Pro</p> <p>Code ST-AMP</p>	<p>Alarm Paging software sent from the Central Computer. This software sends SMS Text, Email and Pager notifications in English direct to the appropriate person/s or technicians informing them what the exact alarm problem is and its readings if necessary. Setup is included in this package</p>	

<p>ThinkBoxx Genius</p> <p>Code ST-Gen</p>	<p>Genius is software that sets up and calibrates BI-Directional Couplers and devices such as Temperature Sensors and Therostats. It calculates Quadratic or Similtanous equations to set the A,B and C Constants within ThinkBoxxs GUI Software. Simple to use but very necessary to have. Is available as an on-line service.</p>	
<p>ThinkBoxx Globalcheck</p> <p>Code ST-SCK</p>	<p>This software allows for Global updates to happen over all network controllers when a security code or card is taken out of or added into the system. Fully Automated from the Central Computer as a service.</p>	
<p>ThinkBoxx SNMP</p> <p>Code ST- SNMPS</p>	<p>ThinkBoxx can Interface to SNMP when required. SNMP is Simple Network Management Protocol and is sometimes used by large network operators such as Cellular phone companies. SNMP is not a control protocol it is just a ping to see what status a particular device is reading.</p> <p>This software can also work in conjunction with ThinkBoxx's SNMP V3 Board System. Please see hardware and Software pricing</p>	<p>Price on application</p>
<p>DNP3 Software interface</p> <p>Code ST-NP3</p>	<p>ThinkBoxx can interface with DNP3 software used by Utilities such as Electricity, Gas, Water and Petroleum companies.</p>	<p>Price on application</p>

Training Courses

Software and/or Hardware Training courses are available.

Code	Description	Price/Per Person
ST-810	Training Courses: 2 and 3 day training courses are available for ThinkBoxx Hardware and Software Tuition. A minimum of 3 people are required for each course. Courses are held in either your premises or a venue of choice. Manuals, course documentation, a light lunch and refreshments are included. Travel, Accommodation and Expenses are not included.	POA

Combined Hardware & Software Support Agreements

Ongoing combined Hardware & Software maintenance agreement starts after initial 12 month warranty period.

Software Programming & Technical Support

Software Programming & On-Site Technical Support available on request

Freight Charges are priced at order shipment stage.

All ThinkBoxx freight is priced as shipped from Los Angeles USA. All prices are FOB.

ThinkBoxx Tower Site MSRP Price List – March 2017

Communications Tower Site Retail Price List only.

Please contact us for other applications, accessories and sensor requirements

Product Code	Description	Price
ST025 ST 025E	Temperature Sensors 0 to 60 deg C (32 to 140F) -45 to 150 deg C (-50 to 300F)	
ST029	ThinkBoxx Controller Battery 7.2 Amp Hour 12 volt	
ST106	Mode 3 Telephone Mounting Jack (RJ31)	
ST107	Modular Telephone Cable	
ST202	Passive Infrared Motion Sensor	
ST203	360' Ceiling Mount Motion Detector	
ST204	High Spec Dual Technology Motion Sensor	
ST205/PFSPR	High Spec. Photoelectric Smoke/Fire Detector: Sensitive to fine particles of smoke such as smouldering cables	
ST206	Siren Speaker 12V ,10 watts - Large	
ST207	Miniature 12V screamer	
ST208	106 DB Internal screamer (Very Loud)	
ST209	Heavy Duty Siren – 130dB (External Use)	
ST210	Blue Xenon Strobe Lamp - Large	
ST211	Blue Xenon Strobe - Small Weatherproof (Can mount to cover)	
ST212	Siren Cover - External - white	
ST213	Tamper Switch for Siren Cover	
ST317	ThinkBoxx I/O Expansion Card - 8 Digital inputs, 8 Analog inputs, 8 Relay outputs. Note: a maximum of 4 Cards total can be attached to the Motherboard, if a ST330 is used only 3 expansion cards can be attached.	
ST330	ThinkBoxx Telephone Support Card – Includes Landline Modem, Active Voice prompt & enunciation for Alarms, Automatic Programmable Dialler with 16 numbers, DTMF Keypad on Remote phone can Control Devices after responding to voice prompts- Individual Site Names can be pre-recorded for \$95 extra per card.	
ST352A	Access Control Interface (Weigand) Unit - Stand Alone Enclosure- Includes full metal housing, Door Strike Relay and Terminals to attach any Weigand Reader (Prox, Fingerprint, Iris Scan etc...)	
ST353	Weigand Prox Card Reader - many types and prices available from	
ST355	Weigand Fingerprint Reader	

ST355	Weigand Iris Scan Reader	
ST355	Weigand Fob (Key chain stick)	
ST356	Weigand Access Cards	
ST390	Replacement Power Pack 110 or 240/16VAC	
ST3000	ThinkBoxx Controller – 19” Rack or wall mounted or security mounted unit complete with Motherboard, 8 Digital inputs, 8 Analog inputs, 8 Relay outputs, RS 232 Serial port x 2, RS 485 x 2, Siren Driver, Strobe Output, X10 Socket, Battery Charger, Aux 12vdc Power Sockets x 2 and External Power Supply (110VAC to 16VAC).	
ST448	4 Channel Module for +/-48V Input to the ST3000	
ST449	48 VDC to 12 VDC Transformer flat pack.	
ST505	Bi Directional Coupler These inline RF couplers are necessary for accurate forward and reflected power readings on Base Station Transmitters and Antenna Systems. All units are calibrated by ThinkBoxx personnel to frequencies and formulas within ThinkBoxx software prior to shipping from the factory. Readings are Watts or dBm to decimal place accuracy. Cables supplied and priced separately by Installer	
ST1100	Serial to Ethernet and Web Server The ST1100-B Device Server can be quickly and easily set up to network-enable ThinkBoxx Controllers through the serial interface so it can be remotely accessed and controlled over the Net. This flexible product is designed to be integrated within the ThinkBoxx Controller housing and is suitable to applications such as factory machinery, security systems, heating and ventilation systems, Tower and Building Automation, Lighting controls and many other applications. Comes with Mounting Plate, Cable and configured to meet your needs.	