SOFTWARE HOUSE

From Tyco Security Products

iSTAR Ultra LT

Modular Access Controller for up to 16 Readers



Features That Make a Difference:

- Powerful IP-ready door controller for up to 16 readers
- Hardened Linux embedded OS for improved security and scalability
- Onboard 256-bit AES network encryption
- Enables wireless locks to communicate with C•CURE 9000 providing a fully integrated and managed lock solution
- Native intrusion zone functionality
- Includes global anti-passback and advanced peer-to-peer clustering
- Manages up to 500,000 cardholders in local memory

iSTAR Ultra LT is a powerful, network-ready door controller that supports up to 16 readers, using IP-ACM Ethernet Door Modules. Its strong feature set answers the most demanding access control requirements of enterprise applications.

Power and Flexibility

iSTAR Ultra LT features a fast dual-core processor that manages 2GB of RAM and 16GB of storage, allowing for tremendous expansion for future applications. It has an onboard gigabit LAN network port, and an onboard Wi-Fi antenna that can be used for either the primary communications path back to the server, or it can be configured for a reliable backup path.

Database backups and all buffered transactions are stored on non-volatile SD card memory, and a real-time rechargeable clock battery keeps the clock powered during a power failure.

Expansion and Servicing

iSTAR Ultra LT is easily scaled up to 16 readers through the use of low-cost, two-reader Ethernet door modules (IP-ACMs), providing extreme flexibility in designing your system architecture.

iSTAR Ultra LT also supports wireless locksets, becoming essentially an eight-reader wireless lock access point. iSTAR Ultra LT can control up to eight readers total, through any combination of IP-ACM readers and wireless lockset readers.

Network Ready

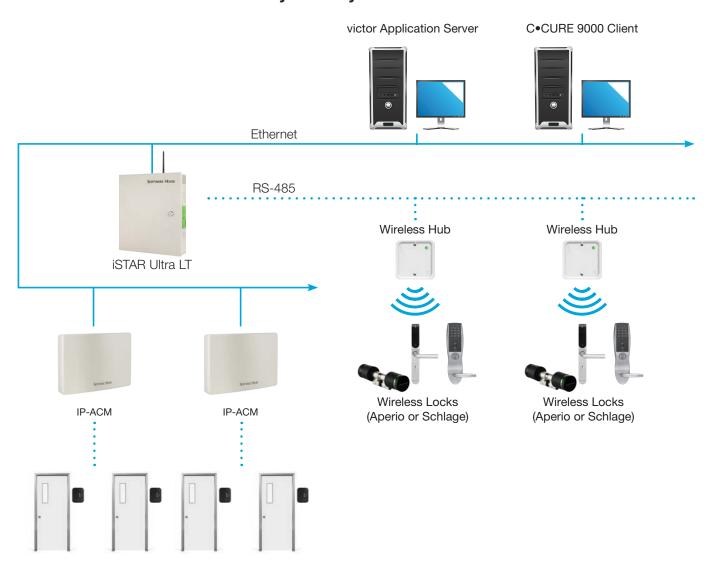
iSTAR Ultra LT includes an onboard gigabit network port and onboard Wi-Fi for primary and secondary communications to the server. The panel includes 256-bit FIPS 197 network encryption, with custom key management, and 802.1X port authentication protocol support which secures the controller from potential network threats. iSTAR Ultra LT supports both static and dynamic IP addresses, using DHCP and DNS to simplify network installation.

Fully Integrated and Managed Lock Solution

Utilizing iSTAR Ultra LT, wireless locks from ASSA ABLOY and Schlage¹ communicate with C•CURE 9000 providing a fully integrated and managed lock solution. Up to eight ASSA ABLOY Aperio wireless locks or Schlage AD300/AD400/NDE/LE locksets² can be managed by a single iSTAR Ultra LT. In addition to traditional locksets, the Aperio line also includes cabinet and data center locks, allowing you to extend the breadth of your access control system to non-traditional openings. Each lockset communicates using AES 128-bit encrypted wireless technology to a wireless hub, which is then connected to the iSTAR Ultra LT with a simple RS-485 communications bus.

All activity and alarms from each wireless device are sent to iSTAR Ultra LT and then up to the C•CURE 9000 in real time, guaranteeing a high level of control and visibility of door actions. Besides standard card access transactions, each device also communicates low battery, tamper, and communications status to the system.

iSTAR Ultra LT and Wireless Lock System Layout



Specifications

Dimensions (H x W x D)

Physical

Plastic	183 x 307 x 62 mm (7.20 x 12.09 x 2.44 in)
Metal	391.65 x 311.15 x 83.77 mm
	(14.25 x 12.25 x 3.30 in)
Board Only	. 148 x 112 x 18 mm (5.83 x 4.41 x 0.71 in)
Weight	
Plastic	. 1.0 kg (2.2 lbs)
Metal	. 1.52 kg (3.35 lbs)
Enclosure Material	. ABS plastic, with front and rear tamper;

18 gage SGCC metal, front tamper

Operating Temperature 0-50°C (32-122°F)
Operating Relative Humidity . . . 5-95% R1 on-condensing Storage Temperature......-20 - 60°C (-4 - 140°F)

Electrical

Power Requirements..... Local power: 12V DC (-15/+20%); Board only: 700 mA@12V DC; Max. of 1.60 A@12V DC for board plus

all attached devices

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PoE Standards	PoE (802.3at), 12.95W min;
	Dol Divis 200 0 at 05 EM min

PoE Plus 802.3 at, 25.5W min (power negotiation uses two-state physical

discovery or LLDP-MED protocol)

Power Available for Attached Devices

PoE: 315 mA@ 12V;

PoE Plus or local power: 750 mA@12V

Heat Dissipation 150 BTU/Hr typical

Memory and RTC Backup Rechargeable lithium battery provides RTC backup; database and buffered transactions

stored in non-volatile memory

System and Network

CPU Freescale i.MX6 1 GHz dual core Cortex-A9

System Memory 2 GB RAM

Primary Network Port 10/100/1000 Mbps, full duplex, auto-negotiate Network Encryption..... AES 256-bit, with custom key management Indicators and Switches LEDs for power, LAN activity, serial port activity



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Memory Capacity

Ten Clearances, Five Cards/Person,

40 Digit Card. 500,000 cardholders

Transaction Buffer Size 10,000 minimum, 500,000 maximum Dedicated Inputs Cabinet tamper, AC fail, low battery

Inputs/Outputs Using IP-ACM

Number of Readers Supported . . 2

Types of Readers Supported.... Wiegand, RS-485 (RM and OSDP

Secure Channel), and Smart Protocol (TST-100 Touchscreen Terminal)

plus optional two wires for device power

Up to 0.75 A per lock, selectable 12/24V

4, configurable supervision per input

sourcing or dry contact relay

Maximum Distance to Door.... RS-485: 1,219 m (4,000 ft); Wiegand: 150 m (500 ft)

Reader Power Available

(dependent on power supply) ... 12V DC, 0.75A max per reader

RM Bus Communications Two ports, RS-485 half duplex, two wire,

Number of Supervised Inputs . . . Input Expansion. Up to 16 additional inputs using I8 modules

Number of Relay Outputs 2 Output Power Selection. Individually configurable via jumper as power

Output Power (Wet).....

Output Rating, Dry Contact..... 0 to 30V AC/DC, 3 A max

Output Protection Individual resettable current switch, snubber,

Output Expansion Up to 16 additional relay outputs using

transzorb, reverse polarity protection R8 modules on RM bus

on RM bus

Specifications for Wireless Lockset Support

Wireless Lockset

Technologies Support ASSA ABLOY Aperio;

Schlage AD300/AD400/NDE/LE²

GCM RS485 Ports to Connect Wireless Hubs...... 1

Max # of Locksets per

RS485 Port 8 or 16

Max # of Wireless

Hubs/PIMs per RS485 Port. 8 (Aperio); 8 (Schlage)

Max # of Locksets per

Wireless Hub...... 8-16 Aperio or 8-16 Schlage

Regulatory

Access Control UL 294, CSA C22.2 No. 205 (Canada) Burglar Alarm UL 1076, ULc 1076 (Canada) CE..... EN 55022 (EMI), EN 55024 (EMC),

EN 60950-1 (safety)

Safety IEC 60950-1 EMI FCC Part 15 Class A, EN 55022,

ICES-003 (Canada), VCCI Class A ITE (Japan), C-Tick (AS/NZS CISPR 22 - Australia/NZ)

EMC EN 55024, EN 50130-4, IEC 62599-2,

EN 61000-6-1

Network Encryption..... FIPS 197

Ordering Information

Model Numbers	Description
USTAR-LT08-EM	iSTAR Ultra LT, supports 8 readers, in metal enclosure
USTAR-LT08-EP	iSTAR Ultra LT, supports 8 readers, in plastic enclosure
USTAR-LT08-MB	iSTAR Ultra LT, supports 8 readers, board only
USTAR-LT16-EM	iSTAR Ultra LT, supports 16 readers, in metal enclosure
USTAR-LT16-EP	iSTAR Ultra LT, supports 16 readers, in plastic enclosure
USTAR-LT16-MB	iSTAR Ultra LT, supports 16 readers, board only

Related Products



C•CURE 9000



C•CURE 9000 SiteServer



Approvals









³Not available in the EMEA region