

## iSTAR Pro 4U Rack Mount

### Features That Make a Difference:

- Leverages 4-post IT racks or standard 2-post Telco racks
- Includes all the necessary components required to control up to 16 doors, in one enclosure
- Models available to support either RS485 RM readers or direct-wired Wiegand readers
- Patent-pending design allows fast field wiring using "quick connects"
- Front panel LCD and LEDs enable quick diagnostics and troubleshooting
- Includes lock power (12/24V, selectable) and separately fused outputs
- Industrial handles and slide rails ensure easy installation
- Hinged cover provides easy access to diagnostic port
- Dual network LAN ports offer redundant network connection
- Fully compatible with C•CURE 800/8000 and C•CURE 9000
- Supports multiple cards per cardholder and multiple card formats including PIV II extended formats
- RM input/output modules allow expansion of up to 128 inputs and 128 outputs
- Unit can be clustered and integrated with other iSTAR Pro controllers
- Firmware is flashable, enabling easy upgrade of new features as they become available



Software House iSTAR Pro Rack Mount is the first standalone, rack-mountable access controller that houses all the necessary components to control up to 16 doors, using either RS485 RM readers, or direct-wired Wiegand readers. This device uniquely manages power and wiring for access control systems by combining 24V/1A power per lock, separately fused and isolated lock outputs, and fire interlocks all within the enclosure. Combined with removable wire connectors that enable quick installation, iSTAR Pro Rack Mount reduces the space requirements and costs associated with installing a panel on the wall, making it desirable for IT professionals.

The patent-pending rack design allows administrators to centrally install and monitor the panel in a standard depth 4-post IT rack or a standard 2-post Telco rack, saving valuable wall space. This efficient design, which includes removable rear connectors for easy field wiring, results in lower installation and service costs.

iSTAR Pro Rack Mount supports Dynamic Host Configuration Protocol (DHCP) to simplify and expedite installation. For easy setup, this device also supports Domain Name Services (DNS), Windows Internet Naming Service (WINS), and Fully Qualified Domain Naming (FQDN), thus providing a comprehensive approach to network management.

A front panel LCD displays real-time system diagnostics for quick troubleshooting. LED status lights indicate power, fire alarm, fan failure, and high temperature. With external diagnostics and status lights, administrators and IT staff can view and handle system duress easily without having to open the enclosure. These security features significantly reduce the risk of system downtime and, with remote web diagnostics, you can find and fix performance issues remotely from anywhere in your facility.

Each unit has front and rear tamper switches to ensure the controller is not accessed by unauthorized personnel. Security risks are significantly reduced with encrypted communications, protection against network intrusion, dual network paths, and optional dial-up secondary communications. iSTAR Pro Rack Mount is a highly secure network device that even the most cautious IT manager will trust.

### Physical

Dimensions (H x W x D)	18 x 48 x 74 cm (7 x 19 x 29 in)
Space Requirements	4U (standard rack units)
Environmental	0° to 50°C (32° to 122°F) 5 to 95% relative humidity, non-condensing
Weight	34 kg (74 lbs)
Misc. Alarms	Fan failure, high temperature
Temperature Alarm	60° +/- 6°C (140° +/- 10°F)

### Electrical

Power Requirements	115 VAC, 60 Hz
Power (Typical/Max/Min)	175W/300W/50W
Heat Dissipation (Typical)	500 BTU/h
AC Input Circuit Breaker Rating	5A
UPS Operation	Battery charging included, with optional 17Ah batteries (5) (provides nominal four hours backup time; 48 hr recharge time)
Memory and RTC Backup	On-board, rechargeable NimH batteries provide minimum 12 hrs retention of RAM and RTC
Max Lock Power (Total Output)	16A
Individual Lock Current Limit	2.5A
Lock Relay Rating	250,000 cycles

### Indicators and Switches

LED for power, high temp, fire, fan failure  
LCD for diagnostics; front mounted

### Communications to Doors (when using RM readers)

Communications Bus	RM bus, separate run to each door
Communications Type	RS-485 half duplex, two wire, plus two wires for reader power
Maximum Distance to Door	1,219 m (4,000 ft) if using local power. Nominal 100-150 m (330-500 ft) with 18g wire when power provided by iSTAR Pro Rack Mount <i>See technical manual for details.</i>

### Reader, Inputs and Outputs

Reader Ports	16 (eight reader version available)
Reader Support	Separate models available for RM readers or RM reader modules, and for direct-wired Wiegand readers

### Reader Technologies Supported

- Multi-Technology
- Proximity
- Smart Card
- Wiegand
- Magnetic Stripe
- HID iCLASS

Maximum Distance to Reader (Wiegand)	152 m (500 ft) using 18g wire <i>See technical manual for details.</i>
Supervised Inputs	32, double-resistor
Input Expansion	Up to 128 additional inputs using 18 input modules
Outputs	16; 1A nominal (max 2.5A) 24 VDC lock power per output. Class 2 power limited. Dry contact operation, selectable per output
Output Voltage	Selectable 12/24 V in groups of eight
Output Protection	Individually protected with PTC resettable fuses
Output Expansion	Up to 128 additional Form C relay outputs using R8 output modules
Fire Alarm Interlock	Drop power upon fire, per lock output, individually settable via jumpers
Tamper Switches	Two, front and rear cover

### Regulatory

Tested and certified by ETL per ANSI/UL standard 294-2004  
CSA 22.2 by cETL  
FCC Part 15 Class B

### Part Numbers

STAR008-4URM	4U iSTAR Pro Rack Mount, eight reader with integral lock power, supports RM devices only (no direct Wiegand)
STAR016-4URM	4U iSTAR Pro Rack Mount, 16 reader with integral lock power, supports RM devices only (no direct Wiegand)
STAR008-4UW	4U iSTAR Pro Rack Mount, eight reader with integral lock power, supports eight direct Wiegand readers plus one RM port
STAR016-4UW	4U iSTAR Pro Rack Mount, 16 reader with integral lock power, supports 16 direct Wiegand readers plus two RM ports

CONTROLLER CAPACITY	64 MB	128 MB
Number of personnel records with one clearance, one card/person, 10-digit cards	525,000	1,000,000
Number of personnel records with 10 clearances, one card/person, 10-digit cards	295,000	640,000
Number of personnel records with one clearance, five cards/person, 10-digit cards	170,000	NA
Number of personnel records with 10 clearances, five cards/person, 40-digit cards	110,000	NA

The trademarks, logos, and service marks displayed on this document are registered in the United States [or other countries]. Any misuse of the trademarks is strictly prohibited and Tyco International Ltd. will aggressively enforce its intellectual property rights to the fullest extent of the law, including pursuit of criminal prosecution wherever necessary. All trademarks not owned by Tyco International Ltd. are the property of their respective owners, and are used with permission or allowed under applicable laws. Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative.

© 2010 Tyco International Ltd. and its respective companies. All rights reserved. SH0126-DS-201006-R05-A4-EN