# SOFTWARE HOUSE

*A Tyco International Company*

# iSTAR Pro 2U Rack Mount

## Rack-mountable access controller

**Features That Make a Difference:**

- Saves wall space and lowers installation costs

- Leverages standard IT server racks

- Controls up to 16 readers using space-saving 2U enclosure

- Patented design allows fast field wiring using quick connects

- Front panel LCD and LEDs enable quick diagnostics and troubleshooting

- Industrial handles and slide rails ensure easy installation

- Hinged cover provides easy access to diagnostic port

- Dual network LAN ports for redundant network connection

- Compatible with C•CURE 800/8000 and C•CURE 9000

- Supports multiple cards per cardholder and multiple card formats, including FIPS 201 extended formats, for a highly secure, flexible solution

The space-saving Software House iSTAR Pro 2U Rack Mount controls up to 16 readers and supports most types of Wiegand and RM output card readers. Coupled 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 a desirable solution 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. The stable temperature and ideal environmental conditions of the IT server room help to preserve the life of the unit, thereby saving maintenance and replacement costs over the long term.

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), Fully Qualified Domain Naming (FQDN), and provides a comprehensive approach to network management.

A front panel LCD displays real-time system diagnostics for quick troubleshooting. LED status lights indicate power and high temperature. With external diagnostics and status lights, administrators and IT staff can view and easily handle system duress 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 controller has front and rear tamper switches to ensure it is not accessed by unauthorized personnel. 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). . . . . | 8.9 x 48.3 x 58.4 cm (3.5 x 19.0 x 23.0 in) |
| Rack Space Requirements . . | 2U (standard rack units) |
| Environmental . . . . . . . . . . . | 0° to 50°C (32° to 122°F) 5 to 95% relative humidity, non-condensing |
| Weight. . . . . . . . . . . . . . . . . | 15 kg (33 lbs) |
| High Temperature Alarm . . . . | 60° +/- 6°C (140° +/- 10°F) |

## Electrical

| | |
|---|---|
| Power Requirements. . . . . . . | 90/264 VAC, 50/60 Hz |
| Input Protection. . . . . . . . . . | 4A/250V fuse |
| Power (Max) . . . . . . . . . . . . | 75W |
| Heat Dissipation (Typical). . . . | 320 BTU/h |
| Memory and RTC Backup. . . | Onboard, rechargeable NimH batteries provide minimum 12 hrs retention of RAM and RTC |
| Network Communications . . . | 10/Base-T Ethernet onboard |
| Second LAN Port . . . . . . . . . | Using optional 10/100 PCMCIA network card |

## Indicators and Switches

LED for power, high temp
LCD for diagnostics

## System Memory

64 MB RAM standard; expandable to 128 MB

## Regulatory

Tested and certified by ETL per ANSI/UL standard 294-2004
CSA 22.2 by cETL
CE
FCC Part 15 Class B
RoHS
Power supply certified to CSA C22.2 No. 60950-1-03

## Reader, Inputs and Outputs

| | |
|---|---|
| Reader Ports. . . . . . . . . . . . . | 16 |
| Reader Support. . . . . . . . . . | RM readers or RM reader modules, or Wiegand output readers |

Reader Technologies Supported
- Multi-Technologu • Smart Card • Magnetic Stripe
- Proximity • Wiegand

| | |
|---|---|
| Maximum Distance to Door . . | RM: 1,219 m (4,000 ft) Wiegand: 150 m (500 ft) |
| RM Bus Communications . . . | RS-485 half duplex, two wire, plus optional two wires for device power |
| Supervised Inputs . . . . . . . . . | 32, double-resistor |
| Input Expansion. . . . . . . . . . . | Up to 128 additional inputs using I8 input modules on RM bus |
| Outputs. . . . . . . . . . . . . . . . . | 16 dry contact relay outputs |
| Output Rating . . . . . . . . . . . . | 30 V AC/DC, 2.5A inductive, 5.0A non-inductive |
| Output Expansion . . . . . . . . . | Up to 128 additional Form C Relay outputs using R8 output modules on RM bus |
| Tamper Switches. . . . . . . . . . | Two, front and rear cover |

## Model Numbers

| | |
|---|---|
| STAR008-2URM . . . . . . . . . . | iSTAR Pro 2U Rack Mount, supports eight RM readers (16 inputs and eight outputs included) |
| STAR016-2URM . . . . . . . . . . | iSTAR Pro 2U Rack Mount, supports 16 RM readers (32 inputs and 16 outputs included) |
| STAR008-2UW . . . . . . . . . . . | iSTAR Pro 2U Rack Mount, supports eight Wiegand readers (16 inputs and eight outputs included) |
| STAR016-2UW . . . . . . . . . . . | iSTAR Pro 2U Rack Mount, supports 16 Wiegand readers (32 inputs and 16 outputs included) |

| | Controller Capacity 64 MB | Controller Capacity 128 MB |
|---|---|---|
| Number of personnel records with one clearance, one card/person, ten-digit cards | 525,000 | 1,200,000 |
| Number of personnel records with ten clearances, one card/person, ten-digit cards | 295,000 | 680,000 |
| Number of personnel records with one clearance, five cards/person, ten-digit cards | 170,000 | 375,000 |
| Number of personnel records with ten clearances, five cards/person, 40-digit cards | 110,000 | 250,000 |

**Typical Rear Wiring per Door, RM Models**

+12V
D+
D-
GND
SHIELD

IN 1
IN 1
IN 2
IN 2
LOCK C
LOCK NO
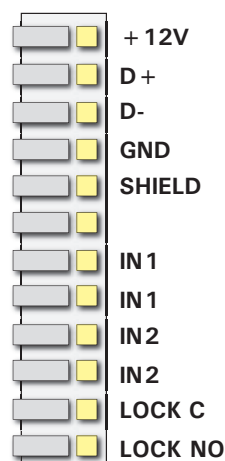
**Typical Rear Wiring per Door, Wiegand Models**

WIEG +
GND
DATA 0
DATA 1
RED
GREEN
IN 1
IN 1
IN 2
IN 2
LOCK C
LOCK NO
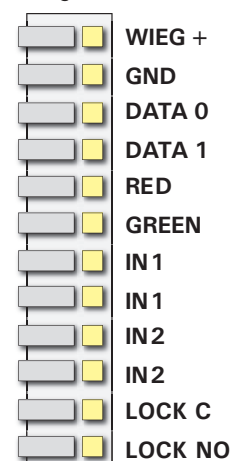
## Related Products

iSTAR Pro Door Controller

iSTAR Pro 4U Rack Mount Controller

C•CURE 9000

## Approvals

RoHS 2002/95/EC

ETL 3138024

CE