SOFTWARE HOUSE

A Tyco International Company

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
                                          See technical manual for details.

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
                                          See technical manual for details.
Supervised Inputs . . . . 32, double-resistor
Input Expansion . . . . Up to 128 additional inputs using I8
                                          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	1,200,000
Number of personnel records with 10 clearances, one card/person, 10-digit cards	295,000	640,000	680,000
Number of personnel records with one clearance, five cards/person, 10-digit cards	170,000	NA	375,000
Number of personnel records with 10 clearances, five cards/person, 40-digit cards	110,000	NA	250,000

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