►►►► Remote Access Server

The N-TRON® 102RAS provides connectivity to an industrial LAN for telecommuters, or mobile users, or to remotely installed equipment, via an integrated V.92/56K modem. The small size of the 102RAS makes it ideal for placing alongside other remotely located industrial equipment.

PRODUCT FEATURES
- One RJ-45 10/100BaseTX Copper Port
- One RJ-11 WAN/Phone Line Port with V92/56K Modem
- Fast Data Transfer Rates:
  V.92/56K Downloads and 48K Upload Speeds from V.92 Servers
  V.90/56K Downloads and V.90/K56flex servers; 33.6K bps Transfers with Other Servers
- Superior Standards:
  Data: V.92, V.90, enhanced V.34 & Below
  Error Correction: V.42
  Data Compression: V.44, V.42bis, MNP Class 5
- Security Support:
  Local Database or RADIUS Support
  Callback Security (local database only)
- Web Browser Configuration
- Redundant Power Inputs (10-30 VDC)
- Extended Environmental Specifications
- LED Link/Activity Status Indication
- Rugged Industrial DIN-Rail Enclosure

PRODUCT OVERVIEW

Compact Remote Access Solution
The 102RAS includes one integrated V.92/56K modem, housed in a compact, industrial, DIN-rail enclosure which provides V.92/56K download speeds and 48K upload speeds when connecting with V.92 servers. Dial-in users can achieve V.34/33.6K connections.

Secure Remote Access
The 102RAS has a built-in security database for user name and password authentication for all remote users. It also features RADIUS client support for authentication to a RADIUS server.

Callback Security
The 102RAS offers password protection with callback security and helps reduce long distance charges for remote offices and users requiring access to the central site LAN.

The 102RAS server supports three security options. The *fixed* callback option stores a password and the remote user's phone number. Once the remote site enters their password, the 102RAS calls back using the number stored in its database. The *variable* option lets the user, such as road warriors, enter a fixed password and a variable call back number each time they call. The *pass through* option offers the security of password protection, while bypassing the call back process.

Configuration and Management
The 102RAS web interface allows for easy set-up and configuration. In addition, it provides the ability to view the current line status as well as a history of past activity.

Shared Dial-Out Convenience
The 102RAS comes equipped with dial-out support for PC users on IP. This means system administrators no longer have to dedicate a modem for LAN users who need to access information services.

When used in Modem Sharing mode, computers with network access to the 102RAS can use Telnet on port 7000 and get direct access to the modem in the 102RAS. More commonly a com port redirector can be installed on a workstation(s). A redirector adds a virtual com port to Windows and uses Telnet to map (redirect) the com port to the modem. Communication programs using this virtual com port will have its data redirected to and from the modem within the 102RAS eliminating the need for each workstation to have it's own modem and phone line. Only one com port (Telnet session) can be open at a time.

industrial
networking

SPECIFICATIONS

Case Dimensions
Height:	3.4"	(8.64cm)
Width:	1.5"	(3.81 cm)
Depth:	3.6"	(9.14 cm)
Weight:	0.70 lbs.	(0.32 kg)
DIN-Rail:	35mm	

Electrical
Input Voltage:	10-30 VDC
Steady Input Current:	221mA@24V
Inrush:	7.4Amp/0.7ms@24V

Environmental
Operating Temperature:	-20°C to 70°C
Storage Temperature:	-40°C to 85°C
Operating Humidity:	10% to 95% (Non Condensing)
Operating Altitude:	0 to 10,000 ft.

Reliability
MTBF:	>2 Million Hours

Network Media
10BaseT:	>Cat3 Cable
100BaseTX:	>Cat5 Cable

Connectors
10/100BaseTX:	One (1) RJ-45 TX Copper Port

WAN/Phone Line: One (1) RJ-11 Modular Port
V.92/56K Modem:
Data:	V.92, V.90, enhanced V.34 & below
Error Correction:	V.42
Data Compression:	V.44, MNP Class 5; V.42bis

Recommended Wiring Clearance
Front:	2" (5.08 cm)
Top:	3" (2.54 cm)

BENEFITS

Industrial Network Switch
- Compact Size / Smaller Footprint
- Provides Connectivity to Industrial LAN via a V.92/56K modem
- Web Browser Configuration
- Provides Multiple Security & Callback Options
- High Reliabillity / Availability
- Extended Environmental Specifications
- ESD Protection Diodes on RJ-45 Port
- Surge Protection Diodes on Power Inputs
- Ruggedized DIN-Rail Enclosure
- High Performance

Regulatory Approvals
FCC Title 47 Part 15 Class A, and Part 68
CE: EN55022; EN55024; EN61000-4-2,3,4,5,6
UL Listed (US and Canada) per ANSI/ISA-12.12.01-2007
Class I, Div 2, Groups A,B,C,D,T5, GOST-R Certified
RoHS Compliant

Designed to comply with:
IEEE 1613 for Electric Utility Substations,
and NEMA TS1/TS2 for Traffic Control Equipment

Ordering Information

102RAS	10/100BaseTX RJ-45
NTPS-24-1.3	DIN-Rail Power Supply 24V@1.3 Amp

4.32"
[109.60mm]

$V_1+ V_1- V_2+ V_2-$

4.07"
[103.38mm]

3.60"
[91.44mm]

3.40"
[86.36mm]

3.71"
[94.30mm]

N-TRON
102RAS

ACT
10/100 BaseTX
LNK

Phone Line

TR ○ ○ CD
TX ○ ○ RX

1.50"
[38.10mm]

RL
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