



## STE-708/716 Series

**8/16-Port 1U Rackmount Industrial RS232 or RS422/485 Serial Device Servers, with Dual LAN Redundancy**



### Features

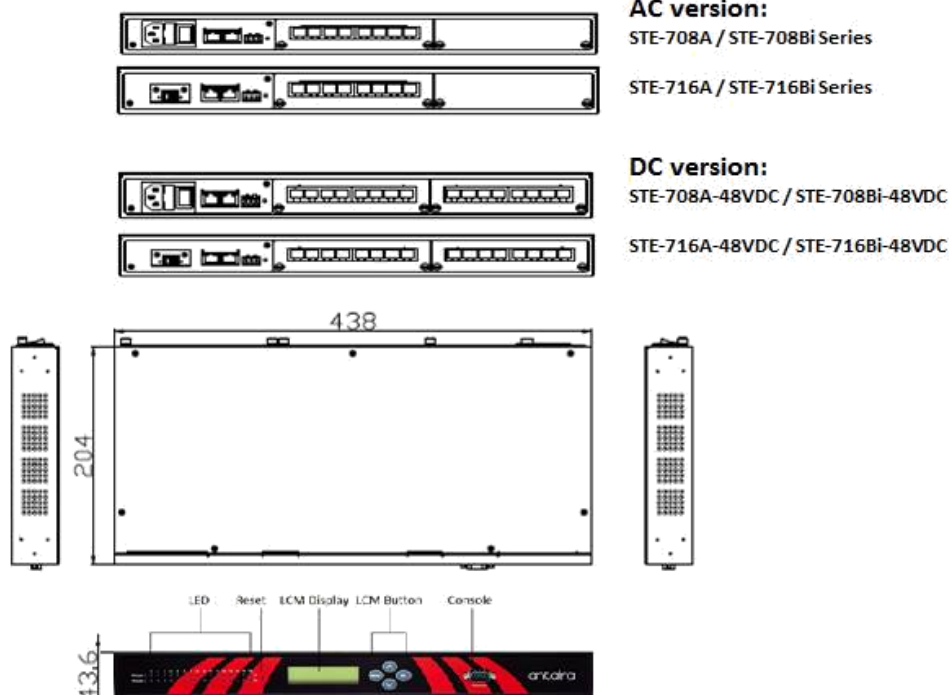
- ▶ 1U 19" Rack-Mount Metal Housing Design
- ▶ Industrial High EMC Protection
- ▶ 8 or 16Ports RS232 or RS422/485 Serial Ports
- ▶ Built-in Dual 10/100Mbps Ethernet for Applications:
  - Daisy Chain Ethernet
  - Network Redundancy
  - Data Redundancy Network
- ▶ 2.5KV Isolation Protection for RS422/485 Models
- ▶ Serial Data Throughput Rate: 50~921.6Kbps
- ▶ Supports Virtual COM, TCP/UDP Server/Client, and Tunneling Mode
- ▶ Configuration via Built-in Web Console, and Windows Utilities
- ▶ Power Input: AC Models: 100~240VAC; DC Models: 24/48VDC
- ▶ Wide Operating Temperature Range Support: -20° to 70° C (-4°F ~ 158°F)
- ▶ 5-Year Warranty

### INTRODUCTION

**Antaira Technologies' new STE-708 and STE-716 series** is either an 8 or 16-port industrial 1U 19" rackmount designed as an RS232 or RS422/485 serial device server. Each unit is built with dual LAN ports which allow users to set up a ring topology network for dual data redundancy applications. It also supports high EMC protection and 2.5KV optical isolation for RS422/485 models. It is designed with wide operating temperature support (-20° to 70°C) to fulfill any industrial environmental application.

Many industrial applications still require legacy serial equipment such as PLCs, barcode scanners, display signs, security access controllers, CNC controllers and many more that are not yet Ethernet ready for a TCP/IP network. Antaira's STE-708 and STE-716 series are designed to transmit data bi-directionally between one-or-more serial devices to a TCP/IP network. Plus the advanced network and data redundancy features would allow users to execute an excellent remote management application.

### DIMENSIONS



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## SPECIFICATIONS

### Ethernet Interface

|                   |                                                             |
|-------------------|-------------------------------------------------------------|
| <b>Technology</b> | IEEE 802.3 10Tx Ethernet<br>IEEE 802.3u 100Tx Fast Ethernet |
|-------------------|-------------------------------------------------------------|

|              |                                                       |
|--------------|-------------------------------------------------------|
| <b>Ports</b> | 2*RJ45 (Dual Individual IP Subnets or LAN Redundancy) |
|--------------|-------------------------------------------------------|

|              |                     |
|--------------|---------------------|
| <b>Speed</b> | 10BaseT / 100BaseTx |
|--------------|---------------------|

### Serial Interface

|                   |                    |
|-------------------|--------------------|
| <b>Connectors</b> | 8 or 16 RJ45 Ports |
|-------------------|--------------------|

|             |                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Mode</b> | STE-708A/716A series with 8/16 Ports RS232<br>STE-708Bi/716Bi series with 8/16 Ports RS422/485 w/Isolation Protection |
|-------------|-----------------------------------------------------------------------------------------------------------------------|

|                  |                |
|------------------|----------------|
| <b>Baud Rate</b> | 50~921,600 bps |
|------------------|----------------|

|               |                              |
|---------------|------------------------------|
| <b>Parity</b> | None, Odd, Even, Space, Mark |
|---------------|------------------------------|

|                       |                |
|-----------------------|----------------|
| <b>Data/Stop Bits</b> | 5,6,7,8, / 1,2 |
|-----------------------|----------------|

|                     |                                       |
|---------------------|---------------------------------------|
| <b>Flow Control</b> | None, Xon/Xoff, RTS/CTS (RS-232 only) |
|---------------------|---------------------------------------|

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| <b>Serial Console</b> | Dedicated RS-232 console port on front panel (DB9) |
|-----------------------|----------------------------------------------------|

|                               |                                                   |
|-------------------------------|---------------------------------------------------|
| <b>Serial Line Protection</b> | 15KV ESD Protection<br>2.5KV Isolation Protection |
|-------------------------------|---------------------------------------------------|

### Software

|                 |                                                                                        |
|-----------------|----------------------------------------------------------------------------------------|
| <b>Protocol</b> | IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, HTTP, Telnet, RFC2217, NTP, DNS, SMTP, Syslog |
|-----------------|----------------------------------------------------------------------------------------|

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| <b>Configuration</b> | Web Console, Serial Manager, Serial console, Telnet |
|----------------------|-----------------------------------------------------|

|                         |                                      |
|-------------------------|--------------------------------------|
| <b>Virtual COM Mode</b> | Windows / Linux redirection software |
|-------------------------|--------------------------------------|

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| <b>TCP Server Mode</b> | 4-connection mode supports Raw Data, Virtual COM or Reverse Telnet |
|------------------------|--------------------------------------------------------------------|

|                        |                                                   |
|------------------------|---------------------------------------------------|
| <b>TCP Client Mode</b> | Dual destinations support Raw Data or Virtual COM |
|------------------------|---------------------------------------------------|

|                 |                       |
|-----------------|-----------------------|
| <b>UPD Mode</b> | Up to 8 ranges of IPs |
|-----------------|-----------------------|

### Mechanical Characteristics

|                |                          |
|----------------|--------------------------|
| <b>Housing</b> | Metal – 1U 19" Rackmount |
|----------------|--------------------------|

|                  |                                 |
|------------------|---------------------------------|
| <b>Dimension</b> | 436 x 43.5 x 200 mm (W x H x D) |
|------------------|---------------------------------|

|               |                                    |
|---------------|------------------------------------|
| <b>Weight</b> | 3200g (16 ports) / 3000g (8 ports) |
|---------------|------------------------------------|

|                     |     |
|---------------------|-----|
| <b>Reset Button</b> | Yes |
|---------------------|-----|

### Power Requirement

|                      |                                                 |
|----------------------|-------------------------------------------------|
| <b>Input Voltage</b> | 110~240VAC (AC models)<br>24/48 VDC (DC models) |
|----------------------|-------------------------------------------------|

|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| <b>Power Connection</b> | IEC 60320-1 C14 AC Power Inlet (AC models)<br>3-Pin Terminal Block (DC models) |
|-------------------------|--------------------------------------------------------------------------------|

|                      |                                       |
|----------------------|---------------------------------------|
| <b>Input Current</b> | 0.21A (AC models) / 0.54A (DC models) |
|----------------------|---------------------------------------|

|                         |   |
|-------------------------|---|
| <b>Power Redundancy</b> | - |
|-------------------------|---|

|                                    |     |
|------------------------------------|-----|
| <b>Reverse Polarity Protection</b> | Yes |
|------------------------------------|-----|

|                          |                                    |
|--------------------------|------------------------------------|
| <b>Power Consumption</b> | 21W (AC models)<br>13W (DC models) |
|--------------------------|------------------------------------|

### Environmental Limits

|                              |                             |
|------------------------------|-----------------------------|
| <b>Operating Temperature</b> | -20°C ~ 70°C (-4°F ~ 158°F) |
|------------------------------|-----------------------------|

|                            |                              |
|----------------------------|------------------------------|
| <b>Storage Temperature</b> | -40°C ~ 85°C (-40°F ~ 185°F) |
|----------------------------|------------------------------|

|                                  |                            |
|----------------------------------|----------------------------|
| <b>Ambient Relative Humidity</b> | 5 to 95%, (non-condensing) |
|----------------------------------|----------------------------|

### Regulatory Approvals

|            |                                                       |
|------------|-------------------------------------------------------|
| <b>EMI</b> | EN 55022: 2010, EN 55024: 2010, FCC Part 15B, Class A |
|------------|-------------------------------------------------------|

|            |                                                                                                                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EMS</b> | IEC-610004-2 (ESD) Level 4;<br>IEC-610004-3 (RS) Level 3;<br>IEC-610004-4 (EFT) up to Level 4;<br>IEC-610004-5 (Surge) up to Level 4;<br>IEC-610004-6 (CS) Level 3;<br>IEC-610004-8 (PFMF) Level 3;<br>IEC-610004-11 |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| <b>Shock / Vibration / Free Fall</b> | IEC 60068-2-27 / IEC 60068-2-6 / IEC 60068-2-32 |
|--------------------------------------|-------------------------------------------------|

|              |                |
|--------------|----------------|
| <b>Green</b> | RoHS Compliant |
|--------------|----------------|

|                       |         |
|-----------------------|---------|
| <b>Certifications</b> | FCC, CE |
|-----------------------|---------|

|                 |         |
|-----------------|---------|
| <b>Warranty</b> | 5 Years |
|-----------------|---------|



## ORDERING INFO

|                             |                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------|
| <b>STE-708A</b>             | 8-Port 1U Rackmount Industrial RS232 Serial Device Server, AC Input, US Plug                     |
| STE-708A-EU                 | 8-Port 1U Rackmount Industrial RS232 Serial Device Server, AC Input, EU Plug                     |
| STE-708A-DC                 | 8-Port 1U Rackmount Industrial RS232 Serial Device Server, DC Input, US Plug                     |
| STE-708Bi                   | 8-Port 1U Rackmount Industrial RS422/485 Serial Device Server with Isolation, AC Input, US Plug  |
| STE-708Bi-EU                | 8-Port 1U Rackmount Industrial RS422/485 Serial Device Server with Isolation, EU Input, US Plug  |
| STE-708Bi-DC                | 8-Port 1U Rackmount Industrial RS422/485 Serial Device Server with Isolation, DC Input, US Plug  |
| STE-716A                    | 16-Port 1U Rackmount Industrial RS232 Serial Device Server, AC Input, US Plug                    |
| STE-716A-EU                 | 16-Port 1U Rackmount Industrial RS232 Serial Device Server, AC Input, EU Plug                    |
| STE-716A-DC                 | 16-Port 1U Rackmount Industrial RS232 Serial Device Server, DC Input, US Plug                    |
| STE-716Bi                   | 16-Port 1U Rackmount Industrial RS422/485 Serial Device Server with Isolation, AC Input, US Plug |
| STE-716Bi-EU                | 16-Port 1U Rackmount Industrial RS422/485 Serial Device Server with Isolation, EU Input, US Plug |
| STE-716Bi-DC                | 16-Port 1U Rackmount Industrial RS422/485 Serial Device Server with Isolation, DC Input, US Plug |
| <b>Optional Accessories</b> |                                                                                                  |
| <b>PWRCORD-US</b>           | AC Power Cord – US Plug                                                                          |
| <b>PWRCORD-EU</b>           | AC Power Cord – EU Plug                                                                          |

## Assured Systems

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