Welcome to Airconsole TS

Thanks for purchasing Airconsole TS – The worlds smallest most flexible serial console server.

Airconsole TS comprises a head unit and additional 4-port cable kits which form a 4 to 12 port single terminal server unit. The entire unit is powered via either via mains from an external 5V DC USB power adaptor or from a 802.3af PoE switch via an optional PoE splitter.

Airconsole serial ports can be accessed one of 4 ways:
1) Directly via IP protocols (ie SSH or Telnet) in a terminal emulator (such as PuTTY on PC, or Get Console on IOS),
2) Directly via virtual COM ports created on PC, Mac via drivers, or with our "Get Console" (IOS) or SerialBot (Android) Apps. COM Ports created over either IP or Bluetooth.
3) via the built in Web Terminal on the Airconsole TS Web Admin page
4) via centralized management server (Airconsole Enterprise Server v2.0)

This Quickstart guide highlights the most common setup requirements. For use with PC, Android, Mac and IOS terminal clients please refer to the full User Manual available at http://support.get-console.com

Airconsole TS Features

Airconsole TS has the following supported features

- Presents 4-12 RS232 serial ports over **WIFI** or **Ethernet** connection to an end user terminal via SSH, Telnet or integrated HTTP
- Presents a single, selectable RS232 serial port over **Bluetooth 4.0** (Low Energy) or Bluetooth 2.1 (Classic)
- Flexible expansion from 4 to 12 ports via slide on modules without rebooting
- Fully configurable Wireless security, IP routing and IP Addressing
- On-demand connectivity to Cloud Service (Airconsole Enterprise Server) makes serial ports accessible via remote web browsers
- Local user database, or use remote Radius / Tacacs+ Authentication, SNMP monitoring
- External power or PoE power options
- Integrated simple Websockets terminal directly from Airconsole TS IP address
- Full Developer SDK for iOS, Android and Websockets
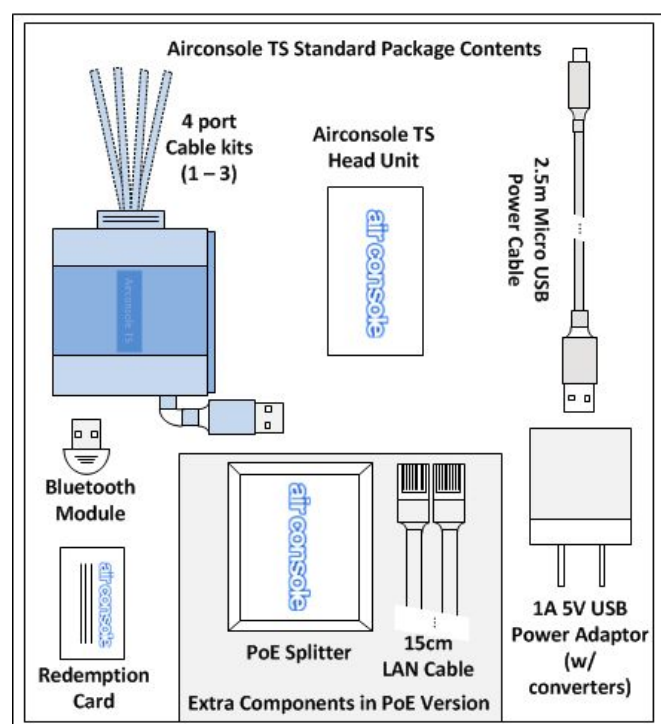- Machine-to-Machine operating modes

Package Contents

Your Airconsole TS package contents depends on whether you ordered a Standard or PoE model

The Standard Kit includes:
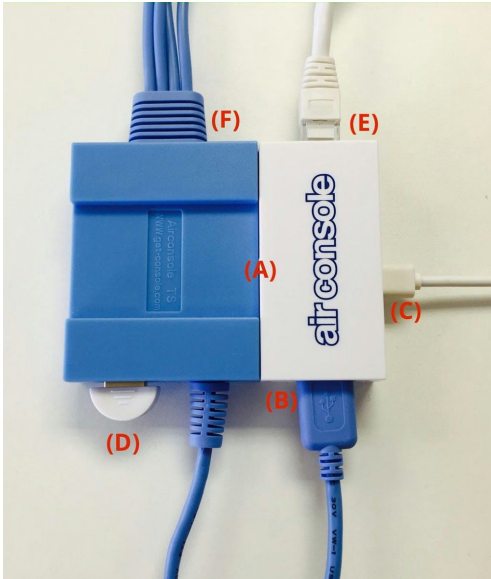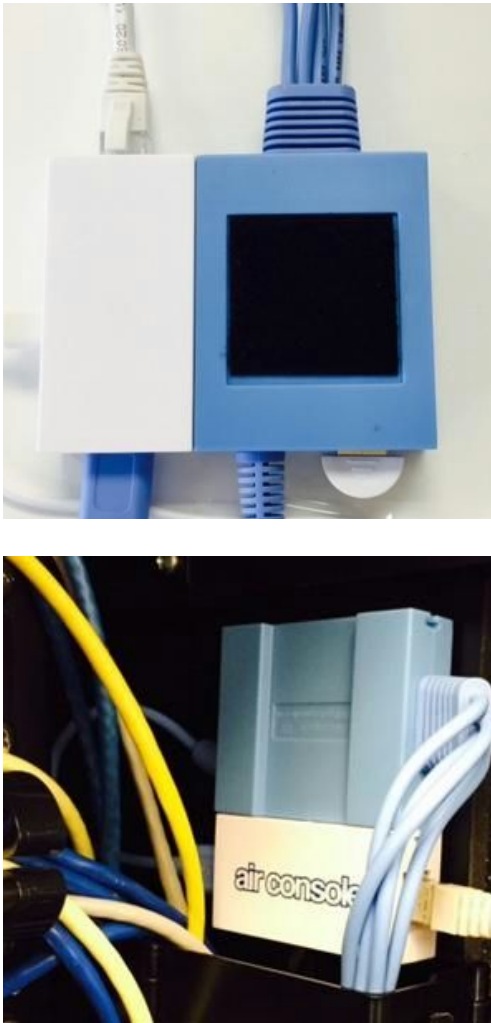1 x Airconsole TS Adaptor
1 x White Micro-USB Power Cable 2.5m / 8.2ft
1-3 x 4 port Serial cable kits
1 x Bluetooth Adaptor
1 x 1A 5V USB Power adaptor
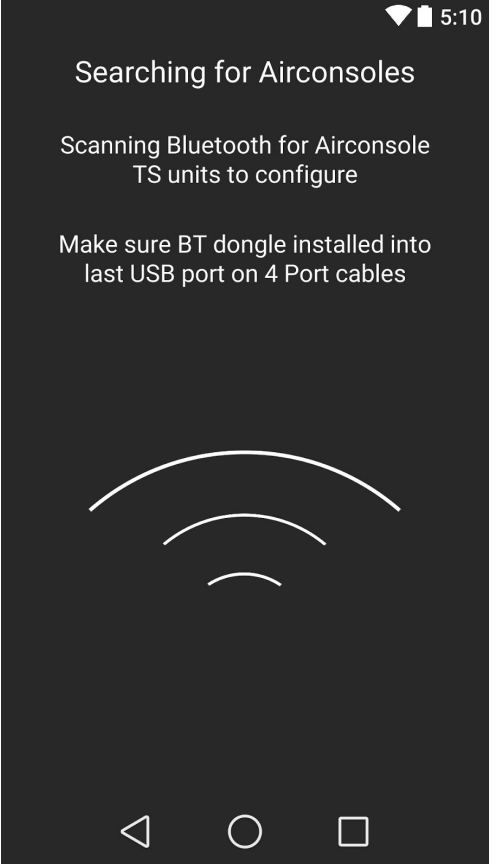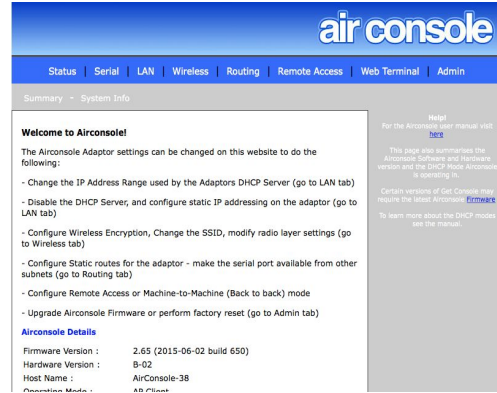1 x Redemption Card for a 2 UDID Get Airconsole Enterprise Server license
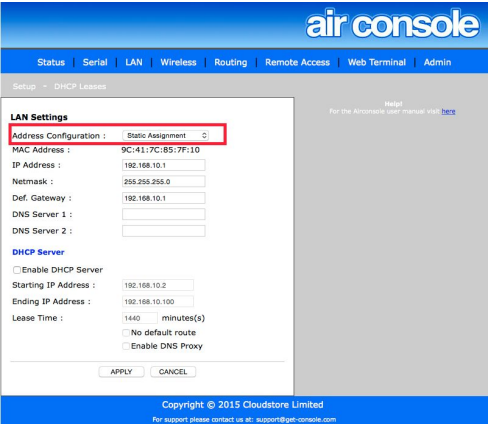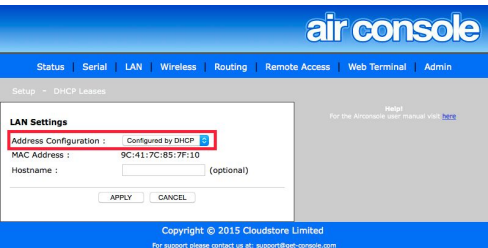
The PoE Kit also includes:
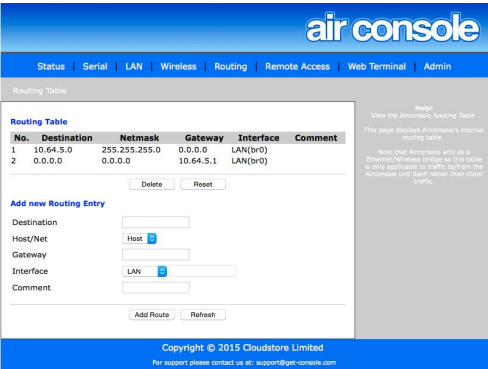
1 x 802.3af 10/100 PoE Splitter
1 x 15cm Ethernet Cable

Airconsole TS Standard Package Contents

Assembly and Mounting

Step	Description	Example
1	A. Slide Airconsole Head unit onto 4 port cable kit. If more than one 4 port kit then slide these on as well. B. Connect USB cable from the first (closest) 4 port cable into USB port of Airconsole Head unit. If more than one 4 port kit then chain the USB cable from second kit into the USB female port of the 1st kit. C. Connect microUSB power cable D. Connect supplied Bluetooth adaptor into USB female port of the **last** 4 port cable E. Connect ethernet cable to local LAN (if using wired Ethernet instead of or in addition to WIFI) F. Connect the serial cables to your serial equipment serial ports.	
2	**Mounting in Rack** Airconsole TS includes industrial Velcro for mounting practically anywhere. Apply velcro square to the back of each 4 port cable kit. Apply self-adhesive hook section of velcro square inside rack where when attached to Airconsole TS will be within reach of external power and serial console ports of the devices to be managed. The supplied power cable is 2.5m long Each serial cable on the 4 port kit is 1.8m long This should allow for positioning Airconsole either at top or bottom of 42U rack and still allow reaching a PDU at the opposite end within same cabinet. The 1.8m serial cables generally will also reach all devices within the same cabinet. If serial cables are too short they can be extended by any "straight through" RJ45 coupler and an Ethernet cable (not supplied).	

3a	**Quick Setup via Bluetooth LE** Once physically installed the *fastest way* to setup Airconsole TS is via our **Configuration App** (available for Android and iOS). Download the App and install. Airconsole TS units are automatically detected via Bluetooth LE. Download the **Airconsole TS Quickstart** app from Apple App Store or Google Play Search for "Airconsole QuickStart" Once connected via the App, follow the configuration Wizard that leads through the following settings: 1) LAN and Device Identity Configuration 2) WIFI Configuration (optional) 3) Serial Port Configuration 4) Remote Access Configuration Other advanced settings can be configured via the Airconsole Web interface or over the air from the Airconsole Enterprise Server.	▼ ▌ 5:10 Searching for Airconsoles Scanning Bluetooth for Airconsole TS units to configure Make sure BT dongle installed into last USB port on 4 Port cables ◁　○　□
3b	**Web Setup** Alternatively, Airconsole can be setup via its built in web based Admin page. This method allows for all settings to be configured. Join your mobile/PC to the Airconsole WIFI network. The Default WIFI password it is **12345678**. By Default Airconsole acts as a **DHCP server** so will give an IP address to your iOS/PC/Android device on the 192.168.10.X network. By Default, the Airconsole DHCP Server does *not* provide a gateway IP. This allows iPad/iPhones to retain Internet access while still connected to Airconsole WIFI. Once connected to the Airconsole WIFI network access the Web admin page at http://192.168.10.1/ Login with username: **admin** password: **admin**	**air console** Status | Serial | LAN | Wireless | Routing | Remote Access | Web Terminal | Admin Summary · System Info **Welcome to Airconsole!** The Airconsole Adaptor settings can be changed on this website to do the following: - Change the IP Address Range used by the Adaptors DHCP Server (go to LAN tab) - Disable the DHCP Server, and configure static IP addressing on the adaptor (go to LAN tab) - Configure Wireless Encryption, Change the SSID, modify radio layer settings (go to Wireless tab) - Configure Static routes for the adaptor - make the serial port available from other subnets (go to Routing tab) - Configure Remote Access or Machine-to-Machine (Back to back) mode - Upgrade Airconsole Firmware or perform factory reset (go to Admin tab) **Airconsole Details** Firmware Version : 2.65 (2015-06-02 build 650) Hardware Version : B-02 Host Name : AirConsole-38 Operating Mode : AP Client
4	The normal configuration tasks for a typical Airconsole TS deployment follow: (a) Configure LAN port IP Address (b) Configure IP routing (c) Configure or Disable WIFI	

		(d) Configure Serial Ports	
		(e) (Optional) Configure Remote Access to Airconsole Enterprise Server	
		(f) (Optional) Configure User Accounts and other Admin settings	
5		**LAN Port Configuration** >> LAN >> Setup To set Airconsole's IP address, Netmask and Default Gateway. Note that changing these settings may require you to reconnect. Airconsole can have its IP address set Statically or learn it via the wired LAN port from an external DHCP server. If the Static Assignment option is taken by the user simply enter the chosen IP address into the settings and may also choose to enter in the details of up to two DNS servers. *If* Airconsole has a *Static IP* address then Airconsole can also act as a *DHCP server itself,* providing IPs for other WIFI and Wired LAN users. Tick the box to enable DHCP server and then set the start/end IP addressing and lease time in seconds. *If* Airconsole's own IP is provided by external DHCP server then select this option. Optionally providing a Hostname may be required for external DHCP server. Airconsole will obtain its IP address from the users DHCP server reachable via the Airconsole LAN port. **Note** that setting Airconsole to be a DHCP client will **automatically disable** Airconsole's internal DHCP Server. This is to ensure Airconsole does not allocate IP addresses to user's existing corporate network.	
6		**IP Routing Configuration (Optional)** >> Routing The Default route will be present from the LAN settings, however use this page to setup additional static routes via other IP addresses.	

| 7 | **Configure or Disable WIFI**

Although Airconsole has a built in WIFI network, in many datacentre deployments this is not permitted or may interfere with other network operations. In order to disable or configure the WIFI go to Wireless Tab.

 >> Wireless

the first option on the page is to switch the WIFI off.

IF however WIFI is required then Airconsole has 3 different operating modes for its WIFI network:

1) (Default) Infrastructure AP - Airconsole acts as an AP via the "Airconsole-XX" SSID. It bridges from this WIFI network to the wired LAN port
2) Infrastructure AP plus **AP Client** - Airconsole acts as *both* an AP as per (1) but also joins an external WIFI network via a separate IP routed interface
3) Station Mode - Airconsole acts **only** as a client (station) connecting to an external WIFI network. This interface is either routed *or* bridged to the wired LAN port depending on option selected. To setup this mode disable the internal Airconsole AP (second button on Wireless Tab)

For more details on configuring WIFI see the full User Manual | |
|---|---|---|
| 8 | **Configure Serial Ports**

>> Serial >> Defaults

The Default baud rate, flow control and other serial settings are edited via Defaults page. These will apply to all ports unless specifically overridden.

>> Serial >> Port Settings

The names and line speed and other serial settings of each of the individual serial port that are connected to end devices may be edited on this page. Names provide an easy identification of the port via remote access, and port parameters can be configured to override the default settings. | |

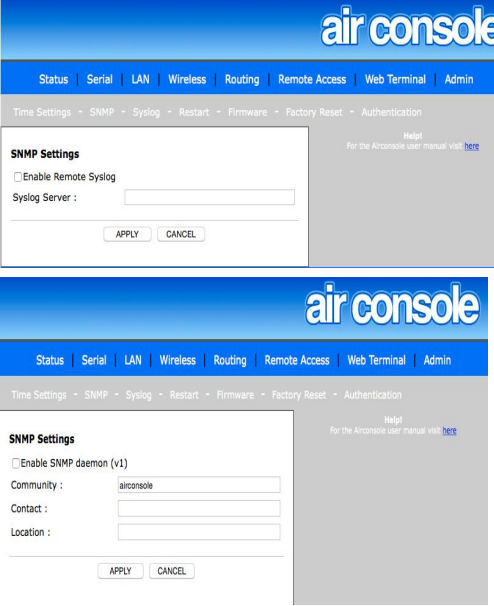|		
9	**Configure Remote Access via Airconsole Enterprise Server (Optional)** Airconsole can be configured to automatically tunnel all serial ports to a remote Airconsole Enterprise Server (Previously called "Private Server"). This allows a remote user access to a serial device while concurrently also allowing a local user to the same serial port. >> Remote Access >> Private Server Set the status to Enabled and enter the IP address or FQDN of the Server, The Username and Password field must match existing accounts on the Private Server/Airconsole Enterprise Server. The device name identifies this Airconsole in the available list of connected Airconsole's on the Server console. Airconsole uses web protocols to tunnel serial data to the remote Server. There are 2 options. The Websockets option is on average 3 times faster than HTTP however it currently is not able to support SSL, so if SSL security is required then the HTTP transport must be selected. Once the settings are applied, the status of the Remote Access connection can be seen by refreshing the home (Status) page. If successfully connected to the Airconsole Enterprise Server, the Airconsole will be visible in the portal page For more details on the Airconsole Enterprise Server see http://www.get-console.com/en/8-airconsole-enterprise-server	
10	**Configure User Accounts and other Admin Settings** **Authentication** Admin >> Authentication This allows the user to change the default password or add additional user accounts. Remote authentication may also be enabled as an option with both RADIUS and TACACS+ protocol being available. Enter the servers IP address and specify what tcp port it is using (if it is not default). Enter the Shared Secret which matches the	

servers secret.

If Radius or TACACS+ authentication is enabled, then this will superceed the local user database. The local user database will only be used as a fallback if the Radius or TACACS server does not reply to an authentication request.

SNMP Settings

Airconsole can be polled by SNMP from a remote management platform. SNMP provides access to a variety of standard MIBs including Interface and others.

Enable SNMP and then set the SNMP Community string.

Optionally set the Contact and Location to identify the Airconsole to the SNMP server.

In addition Syslog can be configured. Syslog will stream log data from the Airconsole OS to a remote customer Syslog server. Enable Syslog via Admin >> Syslog.

A full version of the User Manual can be downloaded from http://support.get-console.com

The full User Manual shows how to use the Airconsole TS directly with PC and Mac OSX clients as well as additional settings that can be configured on the device via its web interface.