Turbine Compact IP Stations Getting Started for AlphaCom turbine

The information in this document pertains to the Turbine Compact IP Stations TCIS-1/TCIS-1-V, TCIS-2, TCIS-3, TCIS-4, TCIS-5, TCIS-6, TKIS-1.

Turbine TCIS-1/TCIS-1-V Station Keys & Functions



Turbine TCIS-6 Station Keys & Functions



Station Connections 1

1.1 External Connectors



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The following table is an overview of the main connectors involved when installing the Turbine IP Stations.

Ethernet/Power	10/100 Mbps Ethernet RJ-45 port for LAN (uplink) connection. Supports PoE (802.3af). Draws power from either spare line or signal line.
Secondary Power	24 VDC (16 – 48 V) secondary power is provided from an external adapter.
Relays	There is one Double Throw relay contact with 60W switching power. COM, NO, NC contacts are provided. Max: 250VAC/220VDC, 2A, 60W.
Input/Output	6 general purpose I/Os are available. Each I/O can be configured as either button input or LED driver.
Audio Line Out	A balanced 600 ohm audio line out with induction loop signal

1.2 Power Supply

The Turbine Station supports Power over Ethernet (PoE, IEEE 802.3 a-f) where power can be drawn from either the spare line or signal line.

If PoE is not available, the Turbine Station can be connected to a 24 VDC local power supply.

1.3 Network Connection



There is one RJ-45 port located on the Turbine station that is used as the PoE/LAN port.

1.4 Input/Output Connections

There are 6 I/O connection options for the Turbine Station. These connections are used as relay contacts for door lock control and external I/O devices.

2 Station Configuration



2.1 Logging into the Turbine Station

The Turbine Station features an embedded web interface which allows users to log in via a standard web browser.

To do this, your PC and the Turbine IP station have to be connected together via a PoE switch using network cables:

- 1. Connect the PC to the PoE switch
- 2. Connect the PoE port on the station to the PoE switch

When the Turbine Station is connected to the network, the **IP address** of the station is automatically obtained in one of two ways:

- 1. IP address obtained from a DHCP server
- 2. If there is no DHCP server, an IP address in the range **169.254.x.x** will be assigned.

To make the station speak its IP address:



• Press the **call button** on the station - when the station is not yet registered

Access the station by logging into the web interface using a standard web browser:

1. Open a web browser

To log into the station:

- 2. In the browser's address bar, type the station IP address and press the ENTER key
 - The station login page will be displayed.



- 1. Click Login
- 2. Enter the default User name: admin
- 3. Enter the default password: alphaadmin

2.2 Station Main Settings

 Click Station Main > Main Settings to access the page for configuring station mode and IP parameters.

Station Admir	Advanced Alphacon	Advanced Network				
	0. 11 M I					
on Information	Station Mode					
Settings	C Use SIP					
	Use Alphacom					
	O Use Pulse					
	O Use Pulse Server					
	Turbine Frontboard	1				
	Frontboard: Normal (TCIS-1, TCIS-2, TCI	S-3) 💌			
	Registration Setting	gs				
	AlphaCom IP-address		192 -	168	- 1 - 19	2
	Directory Number:		116			
	IP Settings					
	DHCP Static IP					
	IP-address:	192	- 168	-1	- 116	
	Subnet-mask:	255	- 255	- 0	-0	
	Gateway:	169	- 254	.1	.1	
	DNS Server 1:	0	- 0	- 0	.0	
	DNS Server 2:	0	- 0	- 0	- 0	
	Hostname	zenite	060000			

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Station Mode

• Select the Use Alphacom radio-button

Read IP Address

Turbine Frontboard

Depending on the type of Turbine Compact station, select one of the options from the drop-down box:

- Kit
- Normal (TCIS-1, TCIS-2, TCIS-3)
- OLED Labels (TCIS-4, TCIS-5)
- Scrolling Station (TCIS-6)

Registration Settings

- Enter the IP address of the AlphaCom server/ exchange in which the IP station is to be a subscriber in the AlphaCom IP-address field.
- Enter the directory no. of the station in the **Directory Number** field.
- If a directory number is not entered, the station will register with its MAC address. The MAC address is found on the **Station Information** page and needs to be entered into AlphaPro.

IP Settings

- **DHCP** Select this option if the IP station shall receive IP Settings from a DHCP server.
- Static IP Select this option if the IP station shall use a static IP address. Enter values for:
- IP-address
- Subnet-mask
- Gateway
- DNS Server 1 (optional for network administration)
- DNS Server 2 (optional for network administration)
- Hostname (optional for network administration)

Read IP Address

• Check the **Read IP Address** box to enable an unregistered station to speak the IP address when the call button is pressed.

Click **Save** followed by **Apply** to apply the new configuration settings.

2.3 Audio Settings

To configure audio settings:

 Select Advanced Alphacom > Audio from the menu

n Advanced Alphacom Advanced	Network	
Audio Settings		
Description	Configuration	
Microphone Sensitivity:	5 💌	0 = disabled
Automatic Volume Control:		Volume depends on noise level
Debug Automatic Volume Control:		Shows current volume level on OLED display
Conversation Mode:	Full Open Duplex	
Audio profile:	Normal 💌	
Line Out Source:	Speaker 💌	Line out can play audio either from VoIP signal (Speaker) microphone
		Save

Microphone Sensitivity

- Select the sensitivity level in the range 0 to 7 from the drop-down box. The default setting is 5.

Automatic Volume Control

- Check box to enable automatic volume control that is adjusted according to the noise level

Debug Automatic Volume Control

- Check box to show current volume level on OLED display

Conversation Mode

- Full Open Duplex: Normal mode with echo cancellation
- Robust Duplex: Option used when open duplex fails due to excessive speaker loudness, microphone overload or very high nonlinear distortions.
- Half Duplex Switching: Switches speech direction depending on who speaks the loudest
- **Push-To-Talk**: Half-duplex communication. Initially the microphone is shut off. Push the M-button to open the microphone, and release to listen. (TCIS-1 station only)
- Open: Full Open Duplex without echo cancellation

Line Out Source

Plays audio either from VoIP signal (**Speaker**) or direct from **Microphone**.

2.4 I/O Settings

 Select Advanced AlphaCom > I/O Settings from the menu

on	Advanced Alphacom	Advanced Network		
I/O	Settings			
D	escription		Configuration	n
R	elay:		Output 0 (RCC	0 0
1/0	D Pin 1:		Input 1	•
1/0	Pin 2:		Input 2	•
1/0	D Pin 3:		Input 3	•
1/0	D Pin 4:		Input 4	•
1/0	D Pin 5:		Input 5	•
1/0	D Pin 6:		Input 6	•
1			57/0	

Note: Changes requires application reboot

 Select either Input or Output options from the drop-down box for I/O Pins 1 to 6.

2.5 OLED Labels

- ① Note that only Turbine stations configured with OLED Labels (TCIS-4, TCIS-5) under Main Settings will have this menu option.
 - Select Advanced AlphaCom > OLED Labels from the menu

▶ Audio	OLED Labels		
► T/O Settings	Description	Configuration	
, i o occango	OLED 1 Display Text:	Guardroom	
VOLED Labels	OLED 1 Font Size	12 💌	
	OLED 2 Display text:	Administration	
▶ Sound Detection	OLED 2 Font Size	16 💌	
	OLED Brightness	Bright 💌	
	Start Scrolling After:	5	minutes

OLED Display Text

• Enter display text in the relevant fields for OLED 1 and OLED 2.

OLED Font Size

• The font size can be either 12 or 16

OLED Brightness

• Brightness: Default, Bright, Extra Bright

2.6 Address Book

- ① Note that only the Turbine station configured as a Scrolling Station (TCIS-6) under Main Settings will have this menu option.
 - Select Advanced AlphaCom > Address Book from the menu

▶ Audio	Address Book	
N I/O Settings	Description	Configuration
, yo beamgs	Default Display Text:	Scroll to Select
 Address Book 	Font Size	12 💌
	OLED Brightness	Default 💌
Sound Detection	Start Scrolling After:	5 minutes
	Upload Address Book:	X:\01 Documentation\ Documentation ir Browse

Default Display Text

• The idle text shown in the display may be changed. The default text is: **Scroll to Select**

Font Size

• The font size can be either 12 or 16

OLED Brightness

• Brightness: Default, Bright, Extra Bright

Start Scrolling After

 Set the time in minutes after which scrolling should start

Upload Address Book



A CSV file consisting of directory numbers and display text with the semi-colon character (:) as delimiter may be uploaded.

Click Browse to upload a CSV file

2.7 Sound Detection

Select Advanced Alphacom > Sound Detection from the menu

ation Advanced Alphacom Advanced Network

Description	Configuration
Sound Detection status:	ENABLED
Ninimum amplitude (dBA):	75 💌
Minimum duration of audio (ms):	350
DAK key to activate:	5
Ninimum time before reactivation (ms):	2000
Report DAK key off after (ms):	200

Sound Detection Settings

Status LEDs

Here you can set the minimum amplitude and duration of the audio, the DAK to activate, etc.



- Bell icon lights yellow when a call is placed and ringing Talk icon lights green when a call is active and in

LEDs on Station Front Plate

conversation Door icon lights red when the door is unlocked or relay is active

Talk Icon: Flashing at 1 second intervals



- Station has no connection to the AlphaCom server/exchange.
- Possible reasons:
- No connection to Ethernet
- Wrong AlphaCom XE IP address configured
- Invalid IP address
- No gateway or wrong gateway to the AlphaCom server/exchange

Talk Icon: Flashing at 5 second intervals



- Station connected but NOT registered in the AlphaCom server/exchange. Reason:

Station has not been programmed in AlphaPro

Restoring Default Settings

4.1 Reset to Default with Activated DHCP

To reset: 1, 2, 3, 4, 5



While pressing any button, power up the station by connecting to a PoE switch.

- 2. Hold the button until the station audio starts counting, and release the button on count 1.
- 3. Press and hold the button on count 5 and release on count 0.
- Press the call button to make the station 4 speak its IP address.

Default values

- Station IP address: (determined by DHCP server)
- Username: admin
- Password: alphaadmin

4.2 Reset to Default with Static IP

To reset:



- station by connecting to a PoE switch. 2. Hold the button until the station audio starts
- counting, and release the button on count 1.
- Press and hold the button on count 3 and 3. release on count 0.
- Press the call button to make the station 4. speak its IP address.

Default values

- Station IP address: 169.254.1.100
- Username: admin
- Password: alphaadmin

5 Station Software Upgrade

- 1. Start the TFTP server program and click Browse to select the folder containing the software image files
- 2. Log on to the IP station web interface
- 3. Select Station Administration > Manual Upgrade

▶ Reboot	Ent	er the	follo	win	g p	araı	nete	ers:	
▶ Logging	TFT IP:	P-server	10].	5	-	2	-	183
Licensing	Ima	Image file		0.2.	2				
Change Password	Sa								
Backup and Restore									
 Manual Upgrade 									

- 4. Enter the IP address of the TFTP server (your PC's IP address)
- 5. Enter the prefix (e.g. tsi-3.x.x.x) to the software image files in the Image file field
- 6. Click Save settings to store the data - The station will now try to contact the TFTP server. If the response is TFTP_CONN_OK the settings are saved, and the Upgrade button will appear.
- Click the **Upgrade** button to upgrade the software 7. on the IP station.
 - The upgrade procedure takes about 3 minutes.



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