

New Products Information

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HITACHI

ADVANCED PRODUCT NEWS

Subject

Product News. Launching of CSNET Manager 2 (T10, T15 & SL).

DATE: SEP.-18

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Summary

This technical bulletin introduces the new generation of CSNET Manager products

The details are indicated in the description.

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1 DESCRIPTION.

The new generation of CSNET Manager products is based on the following devices:

Touch screen devices:

- CSNET Manager 2 T10: a new version of the smart central controller for Hitachi air conditioners with touch screen of 10".
- CSNET Manager 2 T15: a new version of the smart central controller for Hitachi air conditioners with touch screen of 15".

Screen-less devices:

- CSNET Manager 2 SL: a new version of the smart central controller for Hitachi air conditioners without touch screen.

The CSNET Manager 2 devices (T10, T15 or SL) are independent centralized control systems connected to up to 16 H-LINK gateways (HC-A64NET or PSC-A160WEB1) and controlling up to 1024 indoor units.

User interacts with CSNET Manager 2 (T10/T15) through its touch screen or web browser. In case of CSNET Manager 2 SL, interaction is done through web browser.

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Product News. Launching of CSNET Manager 2 (T10, T15 & SL).

DATE: SEP.-18**PAGE: 3 / 36****2 APPLICABLE PRODUCTS, MODEL CODE AND DATE OF SALES.**

The new generation of CSNET Manager will be released to the market once the stocks of current CSNET devices (CSNET Manager LT/XT and PSC-A160WEB1 - CSNET WEB) will be sold out.

The following tables for new products and discontinued products are providing estimated dates for products launching and discontinuation.

NEW PRODUCTS

Model Description ^{(*)1}	Model Code	Picture	Date of initial sales
CSNET Manager 2 T10	7E512203		October 2018 ^{(*)2}
CSNET Manager 2 T15	7E512206		January 2019 ^{(*)2}
CSNET Manager 2 SL	7E512204		April 2019 ^{(*)2}
Wall mounted support (for CSNET Manager LT/XT and CSNET Manager 2 T15)	7E512300		Already in sales
Wall mounted support 2 (for CSNET Manager 2 T10)	7E512302		October 2018
Stand mounted support (for CSNET Manager 2 T10/T15)	7E512301		Already in sales
DIN Rail support (for CSNET Manager 2 SL)	7E512303		April 2019

Notes:

^{(*)1} Listed products should be purchased individually.^{(*)2} After stock consumption of discontinued models**Johnson Controls-Hitachi Air Conditioning Spain, S.A.U.****APN-2018010**

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The new products presented on the previous page will replace the current combination of CSNET Manager LT/XT + HC-A64NET/PSC-A160WEB1. Therefore, the following models will be discontinued:

Model Description	Model Code	Discontinuation Date
CSNET Manager LT	7E512201	Until stock finish (~October 18)
CSNET Manager XT	7E512202	Until stock finish (~January 19)
PSC-A160WEB1	7E512000	Until stock finish (~April 19)

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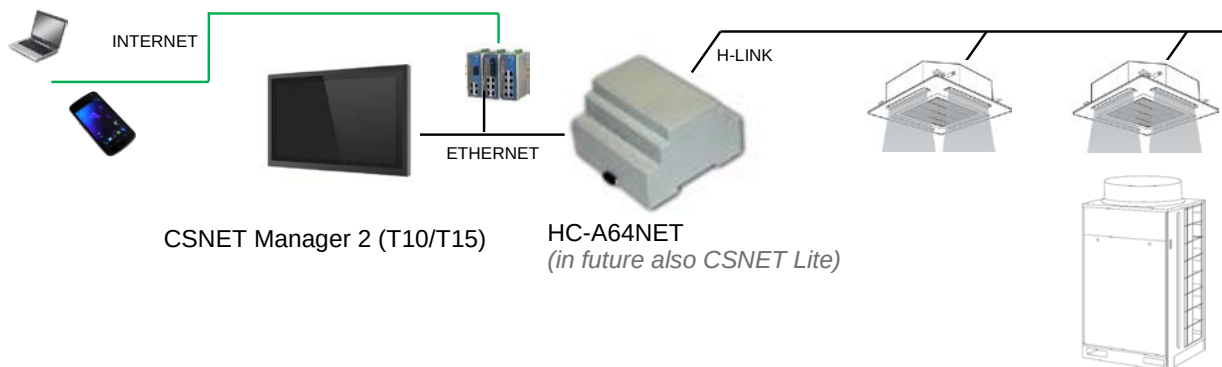
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3 NEW FEATURES.

❖ CSNET Manager 2 T10 / T15

Image	Description
	The key feature of CSNET Manager 2 T10/T15 is its new touch panel: improved appearance and technology for a better user experience. CSNET Manager 2 T10 has a 10 inches screen. CSNET Manager 2 T15 has a 15 inches screen.

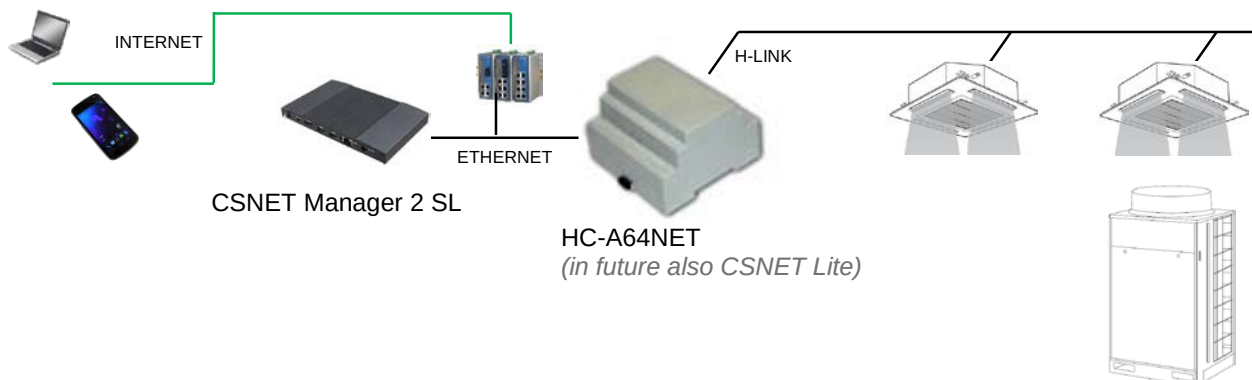
Representative connection diagram



❖ CSNET Manager 2 SL

Image	Description
	CSNET Manager 2 SL is a new product replacing the current CSNET WEB, providing a powerful interface and a screen less solution for large installations. Access to the data is done through the web browser of any computer connected to the same network as this CSNET SL interface.

Representative connection diagram



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3.1 TOUCH SCREEN SIZE REDUCTION

Current CSNET Manager is proposing 2 touch screen sizes: LT (12") and XT (17"). These screens are using the resistive technology.

New CSNET Manager 2 is also proposing 2 screens: T10 (10") and T15 (15"). The screens are smaller but they have a better screen resolution, offering a better image quality and user experience.

These new touch screens are based on the capacitive technology which improves even more the touch experience of the users. In addition, they are slimmer than current CSNET Manager screen (12 mm less), and also lighter (1.6 kg less).

3.2 CONNECTABILITY

New CSNET Manager 2 devices (T10, T15 or SL) are designed to communicate with the air conditioning systems through H-LINK using HC-A64NET interface. The future CSNET Lite will also be used as HLINK interface.

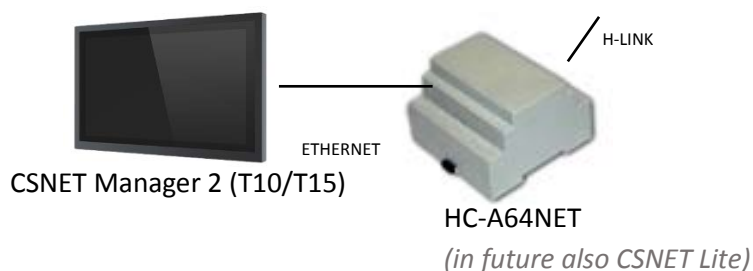
CSNET Manager can manage up to 16 devices. These devices are described in the following lines.

3.2.1 CSNET Manager with HC-A64NET (or future CSNET Lite)

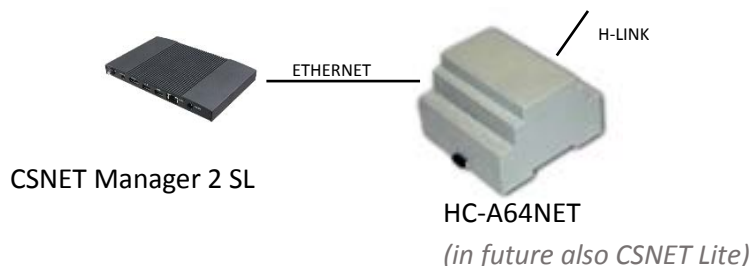
CSNET Manager 2 (T10, T15 or SL) is connected to an H-Link installation through a HC-A64NET gateway (or future CSNET Lite).

When working with HC-A64NET, CSNET Manager is controlling: sending of orders, historical data storage, power consumption calculations and weekly / yearly timer.

Touch screen option:



Screen less option:



Note: Do not connect more than one HC-A64NET (or CSNET Lite) per H-LINK bus.

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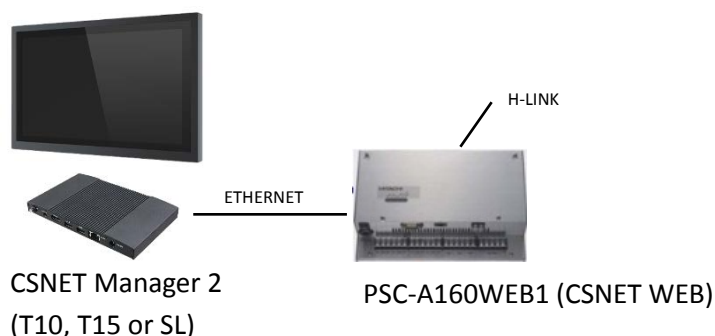
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3.2.2 CSNET Manager with PSC-A160WEB1 (CSNET WEB v4)

For existing installations, CSNET Manager is maintaining compatibility with CSNET WEB v4.

In that case, CSNET WEB hardware is acting as the HLINK gateway for CSNET Manager.

CSNET WEB will work as gateway for CSNET Manager, but it can also have its own configuration from CSNET WEB software.



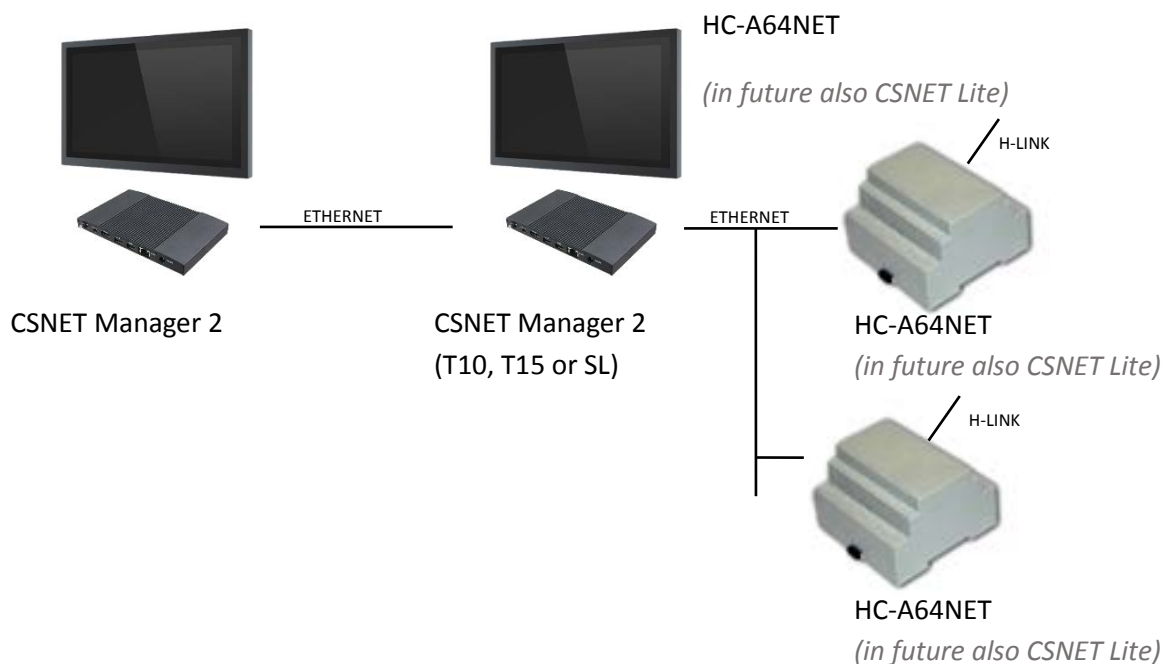
Note:

- It is recommended to make timers on CSNET Manager instead of CSNET WEB.

3.2.3 CSNET Manager 2 with other CSNET Manager 2

CSNET Manager 2 is connected to a CSNET Manager that it is connected to the H-Link installation through the HC-A64NET.

Two CSNET Manager 2 can be interconnected each other, allowing each one to monitor and control the H-Link installation connected to the other one.



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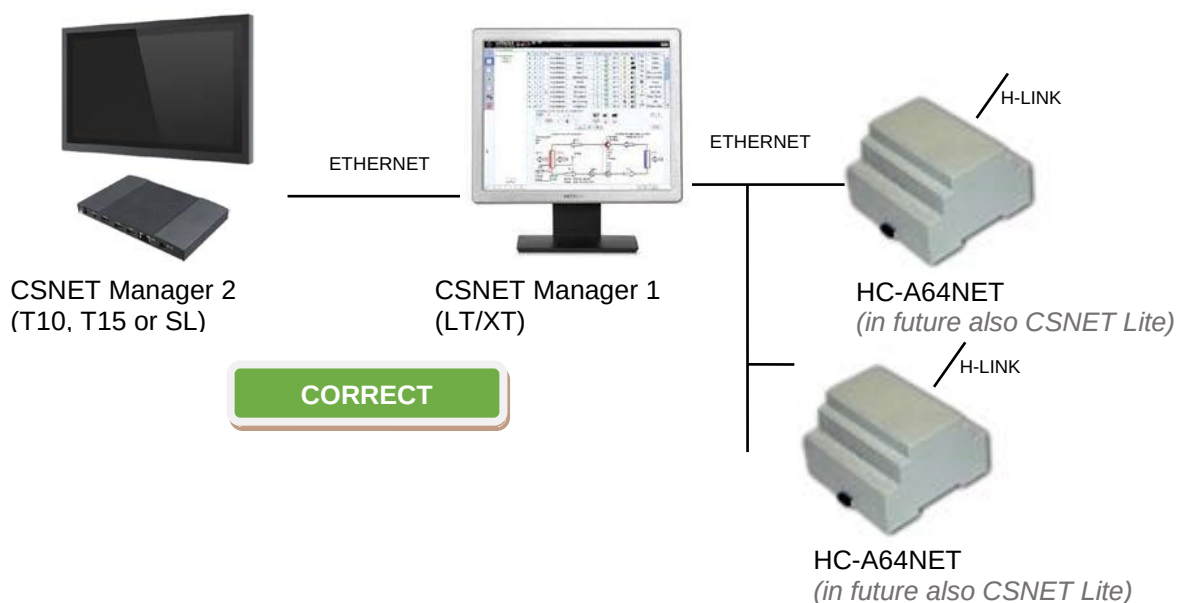
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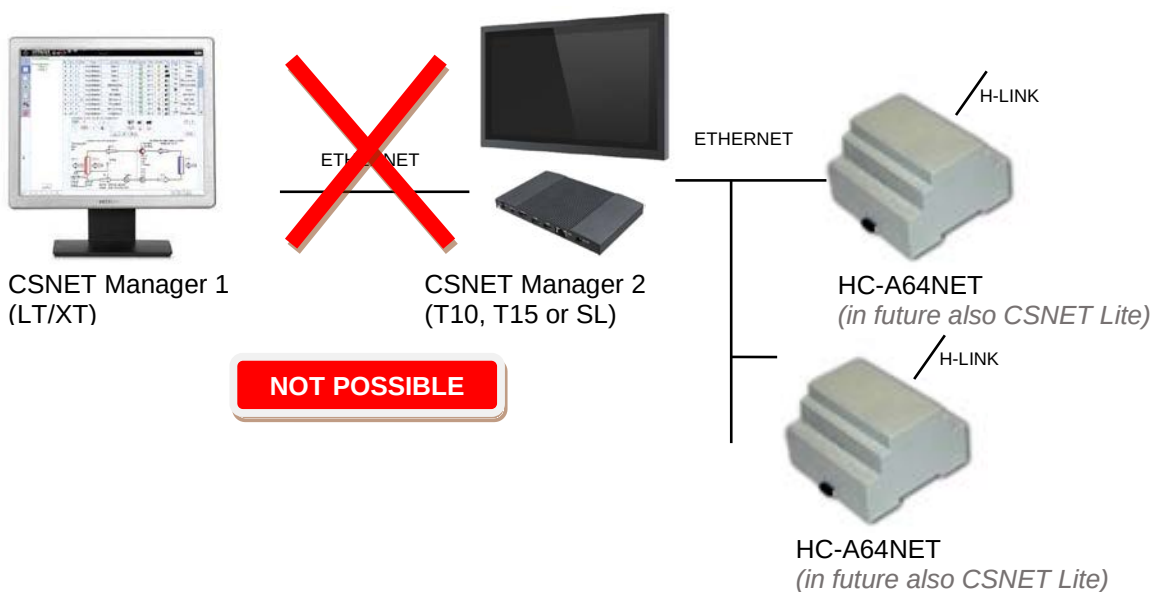
3.2.4 CSNET Manager with previous CSNET Manager LT/XT

CSNET Manager 2 can operate completely with CSNET Manager LT/XT.
CSNET Manager XT/LT cannot read or control a CSNET Manager 2.

Example 1)



Example 2)



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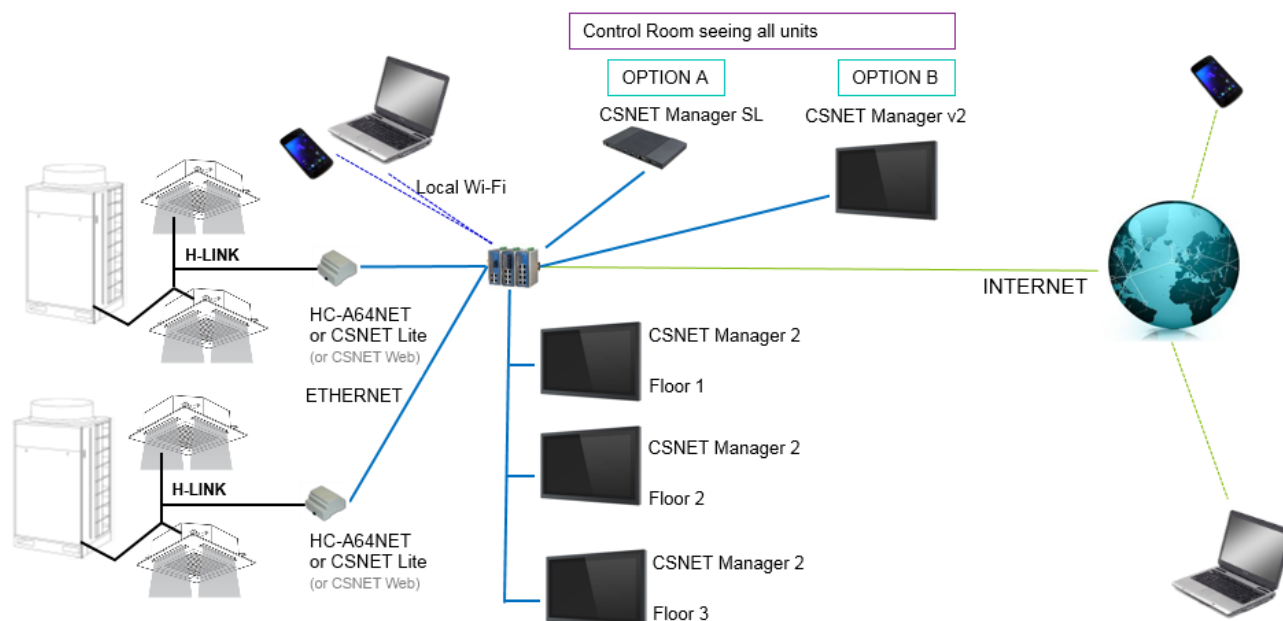
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3.2.5 Complex installations

It is possible to combine all the presented devices to create complex installations like the following one:



3.2.6 Compatibility with other central controls

Gateways used by CSNET Manager 2 (HC-A64NET, PSC-A160WEB1 or future CSNET Lite) are not compatible with other central controllers (PSC-A32MN, PSC-A64GT, etc) in the same H-LINK line.

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3.3 ACCESSORIES

3.3.1 CSNET Manager 2 mounting accessories

CSNET Manager 2 T10 is using the standard VESA 75 mounting dimensions.

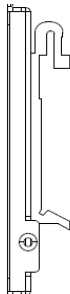
CSNET Manager 2 T15 is using the standard VESA 100 mounting dimensions.

Both solutions are commonly available on the market. Nevertheless, Hitachi is proposing these accessories for the installation of CSNET Manager 2 T10 and T15:

Mounting type	CSNET Manager 2 T10	CSNET Manager 2 T15
Stand	7E512301 – Stand support  VESA 75 & 100	
Wall	7E512300 – Wall support  VESA 100	7E512302 – Wall support 2  VESA 75

3.3.2 CSNET Manager 2 SL mounting accessories

CSNET Manager 2 SL can be mounted on DIN Rail by using the accessory proposed by Hitachi:

CSNET Manager 2 SL
7E512303 -- DIN RAIL Support 

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3.4 SOFTWARE FEATURES

3.4.1 Automatic detection of HC-A64NET, CSNET Manager LT/XT and PCS-A160WEB1

3.4.2 Software functions

❖ Common functions with current CSNET Manager LT/XT and CSNET WEB v4

Display and control of Units

- o Units settings
- o System Status
- o Embedded Building Layout

Units functions:

- o Auto Cool/Heat
- o Cold Draft
- o Heat Draft
- o Setback

Timers:

- o Patterns and Timers
- o Compatibility with ICS calendars
- o Individual timer for users

Registered data:

- o Historical Data
- o Alarm log
- o Order Log

Power management:

- o Power Consumption (By modes or tenants)
- o Power Meter
- o Auto upload to FTP

System control:

- o Web Server
- o Modbus / Fidelio
- o Mail alarm notification
- o Interlock
- o Hotel Application
- o Outdoor control

❖ New functions

- o Dashboard view
- o Historical data live
- o Power meter historical chart
- o Power Meter not linked to indoor unit (to be used for lights, blinds, computers...)
- o Two factor authentication
- o Configuration Wizard

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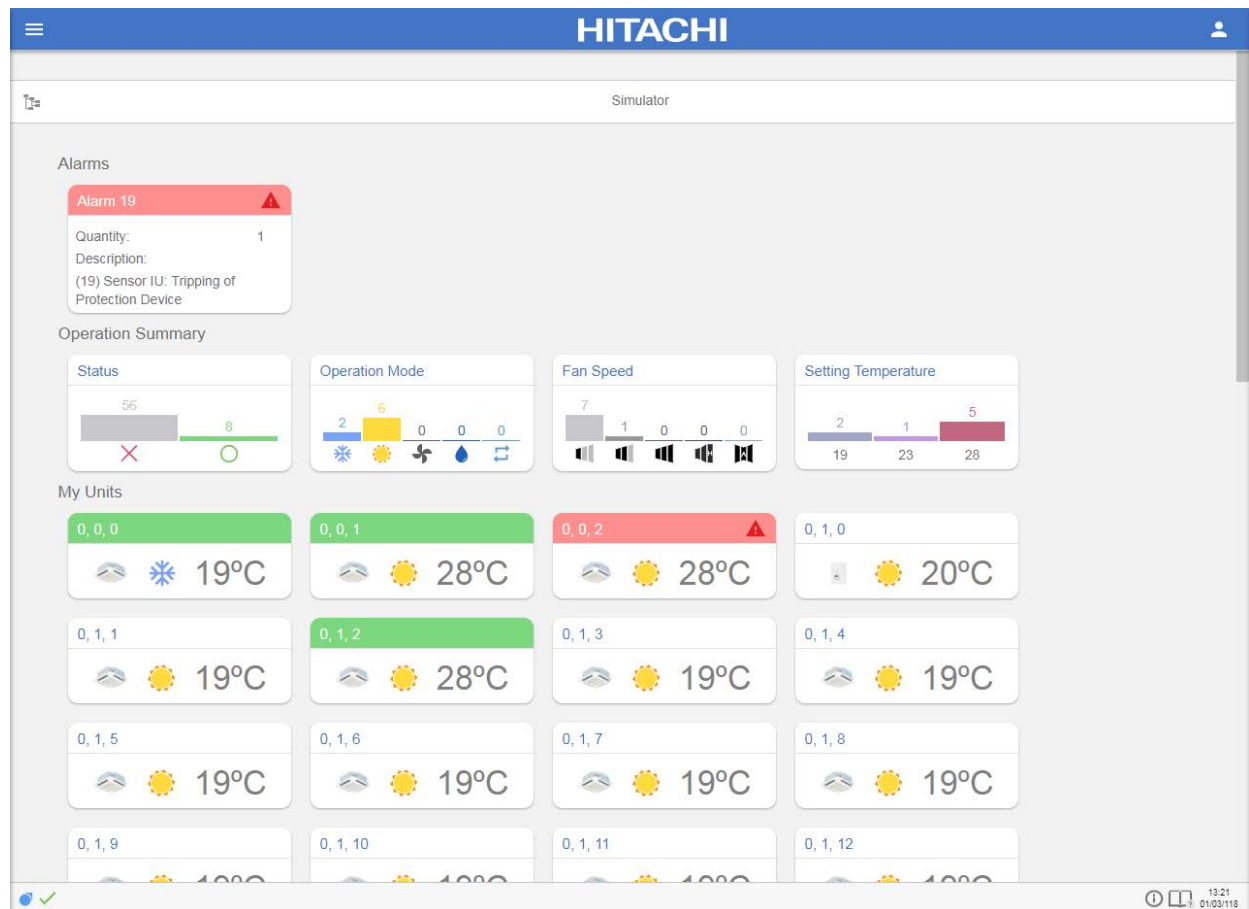
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3.4.2.1 Dashboard

Dashboard screen is displaying icons for each indoor unit, with a summary of operation modes, alarms, alerts and power consumption.



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3.4.2.2 Historical Data Live View

CSNET Manager 2 includes a new data table, displaying the current operation data of indoor units with a permanent update. This is a way to monitor all the parameters of all indoor units on a real time basis.

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Live Data																			
Port	OU	IU	Area	Location	Thermo SL	On/Off	Filter Time	Outlet T.	Inlet T.	RCS	Air Inlet Temp °C	Tgas	Liquid T.	EV	Mode Read	Fan Read	Tset	Mode	Fan
0	0	0	Installation		Thermo On	○	0h	0 °C	24 °C	--	--	0 °C	0 °C	0	❄	19 °C	❄		
0	0	1	Installation		Thermo On	○	0h	0 °C	24 °C	--	--	0 °C	0 °C	0	☀	28 °C	☀		
0	0	2	Installation		Thermo On	○	0h	0 °C	24 °C	--	--	0 °C	0 °C	0	☀	28 °C	☀		
0	1	0	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	20 °C	☀		
0	1	1	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	2	Installation		Thermo On	○	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	28 °C	☀		
0	1	3	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	4	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	5	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	6	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	7	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	8	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	9	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	10	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	11	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	12	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		
0	1	13	Installation		Stop	✗	0h	0 °C	0 °C	--	--	0 °C	0 °C	0	☀	19 °C	☀		

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3.4.2.3 Power Meters not linked to unit

CSNET Manager is now allowing to set up power meters not linked to HITACHI air conditioning units. They can be used to monitor and report the power consumption of lights, computers or any other device of the installation.

To add such a power meter, it is required to go to "Power Meter" screen and click the "+" button, as shown below:

The screenshot displays the HITACHI CSNET Manager interface. The main window shows a table of power meters. A new entry is being added with Port 1000, OU Lights, and Power Meter Enabled. A red box highlights the '+ Add Power Meter not linked to an air conditioning unit' button. The right sidebar shows the configuration details for the 'Lights' power meter, including Energy, Input, Voltage, Current, and a table of sensor data.

Port	OU	OU Model	OU Serial No	OU Type	Power Meter
0	0			RAS-1.5 (SF)	Enabled
0	1			RAS-2.5 (SF)	Same 0, 0
0	2			RAS-3.7 (SF)	Not Set
0	3			RAS-0 (SF)	Not Set
0	4			RAS-0 (SF)	Not Set
0	5			RAS-0 (SF)	Not Set
-	1000			Lights	Enabled

Buttons: + Add Power Meter not linked to an air conditioning unit

Configuration details for 'Lights' power meter:

- Energy: 1,011879744E9 Wh
- Input: 0.0 W
- Voltage: 0.0 V
- Current: 0.0 A
- Monthly Energy: [Graph]
- Description: Lights
- Enabled: [Checked]
- Modbus TCP Device ID: 1
- IP: 127.0.0.1
- Port: 502
- Remove Power Meter: [X]
- Clear History: [X]

Name	Address	Type	Correction	Unit
Energy	802	Unsigned	None	Wh
Input	65	Float	None	W
Voltage	1	Float	None	V
Current	61	Float	None	A

This power meter can also be assigned to an owner on power consumption calculation.

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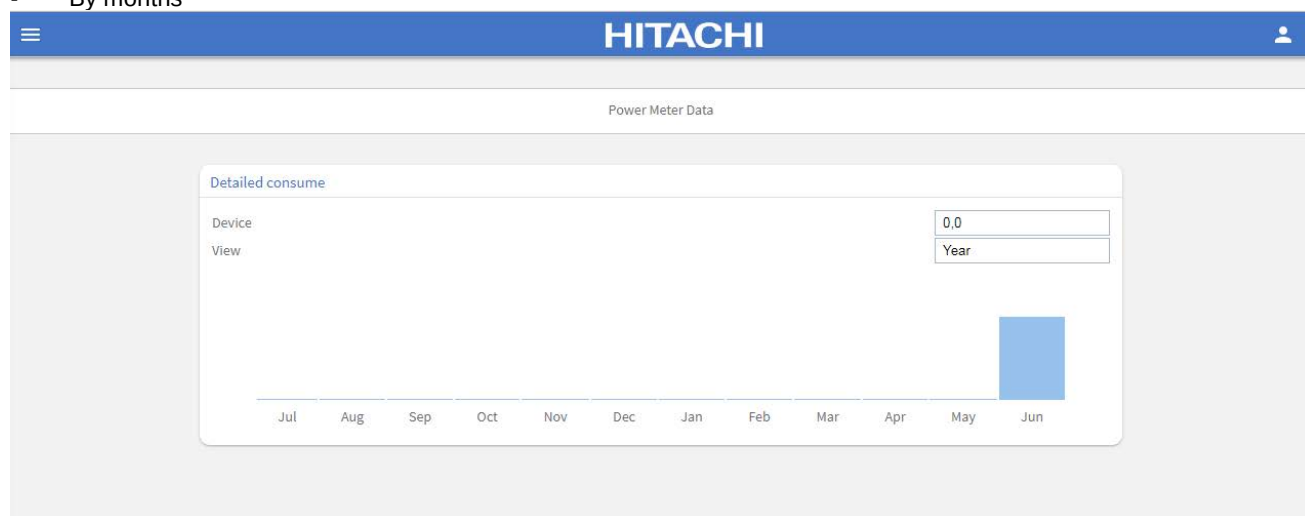
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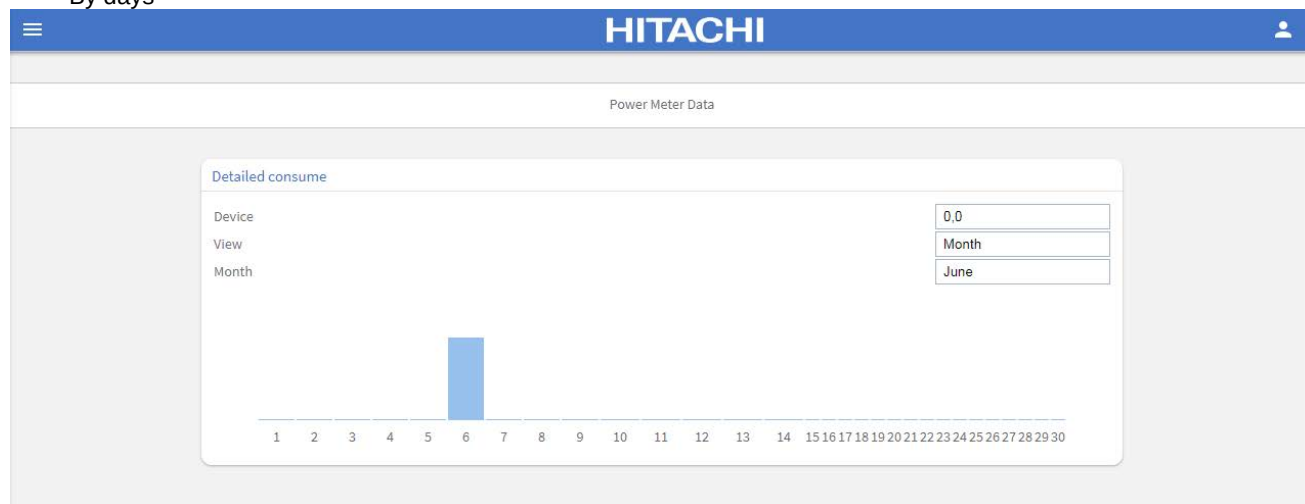
3.4.2.4 Power Meters Historical view

CSNET Manager can now show the accumulated power consumption over a year. Data can be shown:

- By months



- By days



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3.4.2.5 Two factor authentication

Each user can activate a two factors authentication to link its login procedure to a smartphone and add a second security layer. This can be done from the "my preferences" menu. In this menu, the user can configure its basic parameters like language, initial view and password.

This function requires external mobile application like Google Authenticator, Microsoft Authenticator or Authy (recommended).

The screenshot displays the 'My preferences' page of the HITACHI system. The top navigation bar is blue with the 'HITACHI' logo and a user profile icon. Below the bar, the page title 'My preferences' is centered. The main content area is divided into two sections: 'User Details' and 'Security'. The 'User Details' section includes fields for 'Language' (set to English), 'Initial View' (set to Dashboard), and 'Password' (with a 'Change Password' button). Below these fields are two buttons: a red 'X' and a green checkmark. The 'Security' section features a 'Two factor authentication' toggle (checked), a 'Status' dropdown (set to Disabled), and a QR code for scanning. Below the QR code is a text input field for a validation code. At the bottom of the page, there is a status bar with a blue checkmark icon, a clock icon, and the time '15:52' and date '26/06/2018'.

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3.4.2.6. Configuration Wizard

Configuration Wizard displays several configuration windows, following a logical order to assist the user during the commissioning sequence of its installation.

The windows displayed by this wizard are the same as the different menus that can be found into the local computer configuration area.

Step 1: Network configuration

Device Name:

You can specify the device name as shown on your network in order to get connected without entering its IP address. This device can be HC-A64NET, CSNET Lite, CSNET touch screen, CSNET WEB.

IP assignation type:

Configure a dynamic IP for your device (if available on your network) or a static IP configuration.

Dynamic IP is recommended to get connected on a DSL router LAN.

In case of using DHCP, you should use the "Device Name" in the network configuration, so the connection to the touch screen or to the screen less interface from a web browser will always be possible, even when the local IP of this device changes by DHCP.

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Step 2: Configure the proxy if necessary (check with IT manager of the installation)

The screenshot displays the HITACHI CSNET Manager 2 Configuration Wizard. The title bar shows 'HITACHI' and a user icon. The main window has a 'Network Settings' tab. A 'Configuration Wizard' dialog box is open, showing step 2 of 7. The text inside the dialog reads: 'To be able to use weather forecast or software updates, it should be configured a proxy if your LAN use it to connect to Internet. Ask your IT team for credentials.' Below this text are 'Back' and 'Next' buttons. The 'Proxy Settings' section contains four input fields: 'Address', 'Port', 'Username', and 'Password'. At the bottom of the dialog are 'X' and '✓' buttons, and a trash icon. The status bar at the bottom of the window shows 'Esperando a 127.0.0.1...' and a timestamp of 12:28 on 26/06/2018.

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Step 3: Software register

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Software Register

Configuration Wizard

3 / 7 Register the software for automatic updates with new functions when they will be available.

Back Next

Software Register (Not Registered)

Name and Surname

Company Name

Email Address

Share anonymous data to help improving the software

In case of using proxy, ensure that the device can connect without user interaction to the host:
<http://www.hitachiaircon.es:8080/HapeWeb/>

✓

12:28 26/06/2018

Register the software for automatic updates.

Decide to help Hitachi by sharing anonymous data of software usage.

New Products Information

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Step 4: Installation configuration

The screenshot shows the HITACHI Configuration Wizard interface. At the top, there's a blue header with the HITACHI logo and a user icon. Below the header, a grey bar indicates 'Configure the installation'. The main content area features a 'Configuration Wizard' window with a progress indicator '4 / 7' and the instruction 'Specify which functionalities will be used for your installation.' Below this, the 'System Configuration' section is visible. It includes a 'Description' field for 'Installation Name'. Under 'Used functions', several checkboxes are shown: 'Building Layout' (checked), 'Power Meter' (checked), 'Modbus' (checked), 'Fidelio' (checked), 'Outdoor Control' (checked), 'Alarm notification' (checked), 'Interlock' (checked), and 'Hotel Application' (checked). There is also an unchecked checkbox for 'Weather Forecast' which includes fields for 'Latitude' and 'Longitude'. At the bottom right of the wizard window, there are icons for help, a list, and a refresh button, along with the time '12:27' and date '26/06/2018'.

Select the functions that shall be used on your installation. Unselected functions will not appear on the user's account once logged in.

To get the weather forecast of the area where the installation is set up, input the geographic coordinates of the area.

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Step 5: Configure the devices on your network

The following settings can be specified:

- Name of the installation
- Hardware configuration: for each available slots, different devices can be set up by inputting the requested information.

- Type: device model
- Name: to identify easily the concerned interface
- Address: IP address to connect with the device.
- Port: communication Port to get connected.
- Proxy: to activate the connection through proxy.
- Password: device password

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Step 6: Users configuration

The screenshot displays the HITACHI CSNET Manager 2 User Configuration interface. The main window is titled 'Configure the installation' and shows a 'Configuration Wizard' at step 6/7. The wizard instructions state: 'Set up user accounts for different people using this application through web browsers or smart phones. Specify their privileges to configure what a user can do.' Below the wizard is a 'User List' table with columns: Username, Status, Central, Timer, Individual Timer, Data View, Unit Configuration, System Configuration, and Local configuration. The 'Installer' user is listed with a green checkmark in the Status column and checkmarks in all other columns. A '+ ' button is visible at the bottom right of the User List. On the right side, the 'User Details' sidebar is open, showing fields for Username, Password, Language (English), Status (Active), Initial View (Dashboard), and Two factor authentication (Disabled). Below these are 'Privileges' for Central, Timer, Individual Timer, Data View, Unit Configuration, System Configuration, and Local configuration, each with a checkbox. At the bottom of the sidebar is the 'Unit Filter' section with two radio buttons: 'Allow all units except units below' (selected) and 'Disable all units except units below'.

Use this screen to add users, define the privileges they have, the units they can access and their default preferences.

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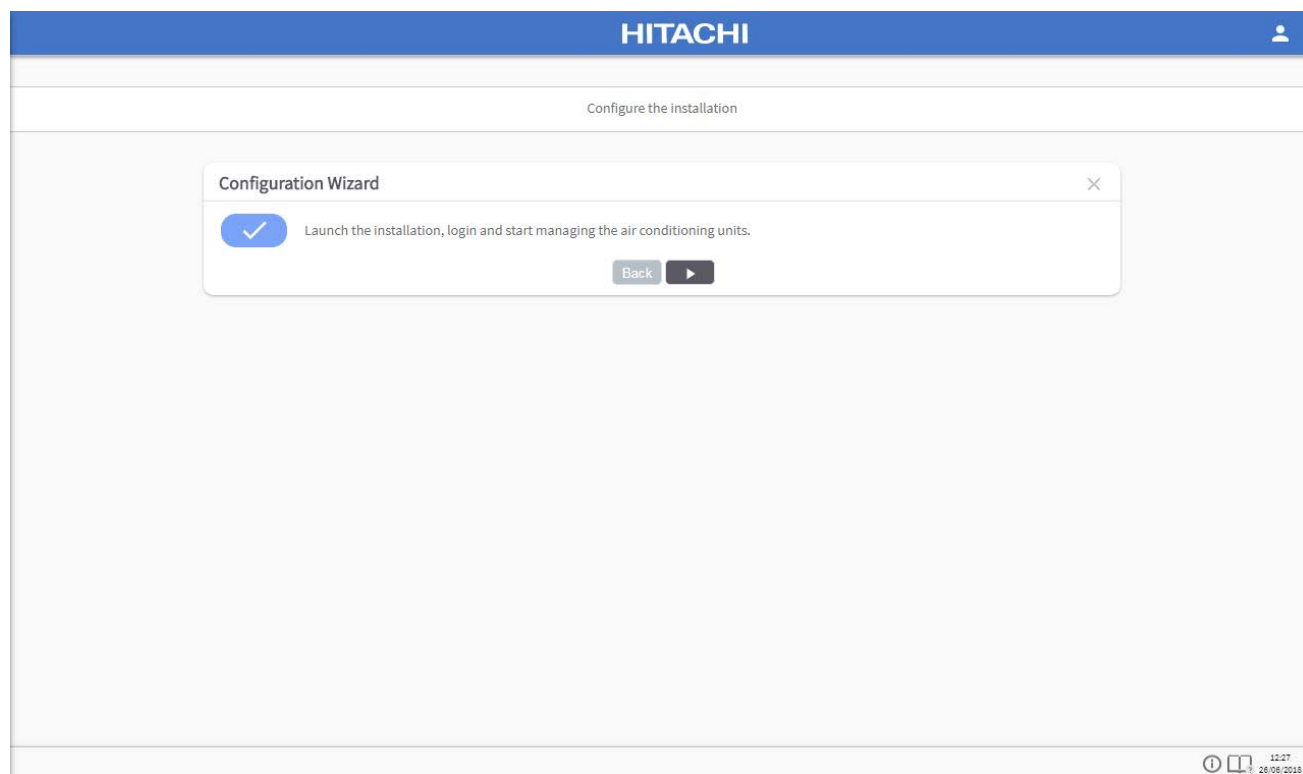
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Step 7: launch the installation



Start communication with the devices and the related indoor / outdoor units if they are already installed.

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3.4.3 Software and documentation update

CSNET Manager 2 allows updates from Hitachi server when available. The CSNET manager software can be updated as well as the attached product manual.

3.4.4 Adaptive screen

CSNET Manager 2 interface has been rebuild completely to fit in any screen from mobile or computer.

When moving through the screens, transitions between panels are done to give the users a similar experience as using a mobile app.

"Send" & "Cancel" buttons have disappeared from most of the panels, giving the users the feeling of a constant update / refresh of the settings.

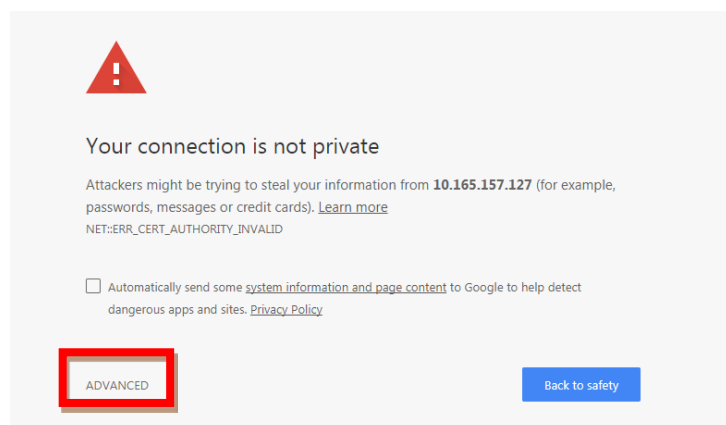
3.4.5 Security

CSNET Manager 2 has been updated in order to comply with the standards of security defined by Johnson Controls. One key feature is the adoption of SSL, establishing Ethernet connections through HTTPS.

A certificate can be downloaded from CSNET Manager 2 by any computer or smartphone connected to the same LAN. This certificate will enable a secured connection with CSNET Manager 2, allowing the expected secured connection by the web browsers.

How to install SSL certificate on a device to get connected through HTTPS:

- Be sure that you have successfully configure the CSNET Manager Network configuration.
- Connect to CSNET Manager through web browser.
- Add exception to connect to this web site:
Click on advanced: extra information will be displayed.



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Then click on proceed:



Your connection is not private

Attackers might be trying to steal your information from **10.165.157.127** (for example, passwords, messages or credit cards). [Learn more](#)

NET::ERR_CERT_AUTHORITY_INVALID

☐ Automatically send some [system information and page content](#) to Google to help detect dangerous apps and sites. [Privacy Policy](#)

HIDE ADVANCED

Back to safety

This server could not prove that it is **10.165.157.127**; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.

[Proceed to 10.165.157.127 \(unsafe\)](#)

d) Access to local configuration

HITACHI

29.4°

Installation:

HAPE

Username:

Password:

Forgotten password

✓

CSNET Manager 2 v1.0 (12917)

11:28

31/07/2018

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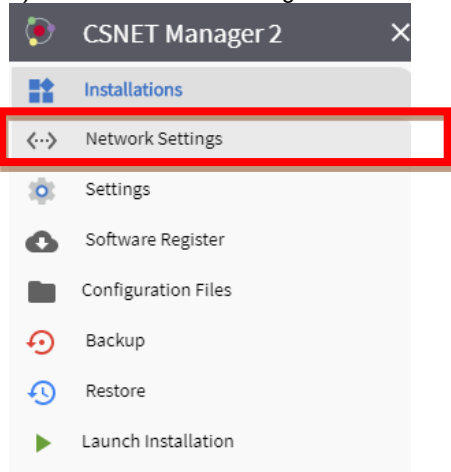
Subject

Product News. Launching of CSNET Manager 2 (T10, T15 & SL).

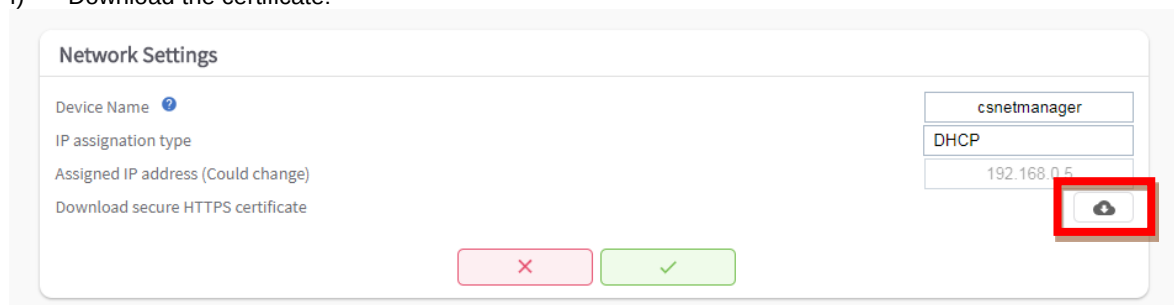
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e) Go to network settings



f) Download the certificate:



g) Install the downloaded certificate by double clicking on it.

Check with your IT how to install this certificate if you are not computer administrator or if you want to install it on a mobile phone.

h) After refreshing the connection page displayed on the web browser (by pressing F5), the CSNET Manager address and connection will be displayed as secured.

Important:

- if the "Device Name" is changed on the "Network settings", the connection certificate will be updated accordingly. It will be necessary to download and install this updated certificate to get the connection secured again. This operation shall be done on any device (smartphone, laptop) used to get connect to the concerned CSNET device.

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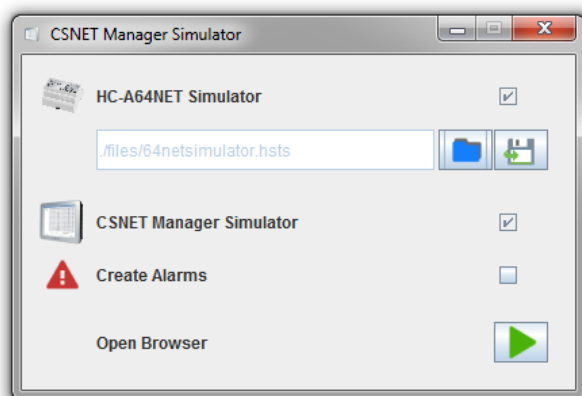
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3.4.6 Demo mode

A demonstration tool for CSNET Manager 2 is now available.

The CSNET Manager Simulator simulates a HC-A64NET with multiple units. It opens a CSNET Manager in a web browser, to interact with simulated indoor units.



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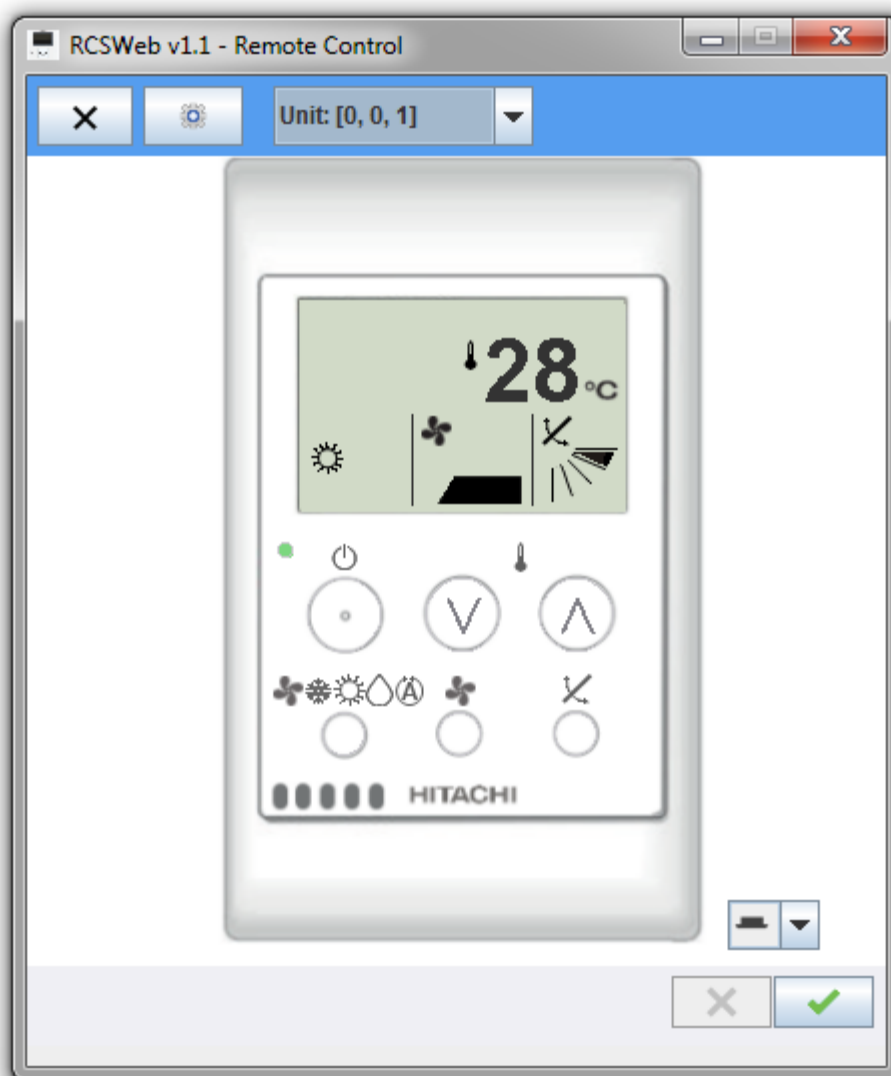
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3.4.7 RCS Web PC-ARH

RCS WEB can be used with the new CSNET Manager 2.

This New RCS Web version adds the current PC-ARH RCS model to existing PC-ARF & PC-ARTE models.



Note: for security reasons, one user cannot be connected to CSNET from multiple sites at the same time. As a consequence, one user using RCSWeb will not be able to connect if he is already connected from a web browser at the same time. This user shall first log out from the first connection on Web browser to be able to get connected with RCS Web.

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4 GENERAL DATA

4.1 CSNET Manager 2 T10

❖ General characteristics

Item	Specifications
Power supply	AC adaptor: 1~ 100~240 VAC / 50~60 Hz - Direct power supply by +12~24V DC
Consumption	(power adapter) 60W output (12V, 5A)
Outer dimensions	Width: 255,2 mm, Depth: 33,3 mm, Height: 169,4 mm
Weight	1,2 kg
Assembling conditions	Indoor
Ambient temperature	0~40 °C
Humidity	0% ~ 90% Relative Humidity, Non-Condensing
Communication with (max. Nº.)	CSNET Lite / HC-A64NET / PSC-A160WEB1 / CSNET Manager LT or XT (16 devices)
Type	TCP/IP communication
Connector	Ethernet (RJ45)
Communication line	2 twisted pair cable CAT5 or better (T-568A/T568B)
Communication system	Full-duplex
Length	Max. 100 m according IEEE 802.3
Maximum number of IU	1024

❖ Hardware characteristics

Item	Specifications
DISPLAY	
LCD size	10.1", 16:10
Display	WXGA
Resolution	1280 x 800
Contrast ratio	800
Touch screen	Projective Capacitive
SYSTEM	
CPU	Intel Atom Z3735F 1.33GHz Processor
System memory	2GB DDR3L
Hard Disk	32GB eMMC
CONNECTIONS	
Ethernet	1 x RJ45
Wi-Fi	802.11 b/g/n (SIP) (not used)
VGA	1 x HDMI (not used)
USB	2 x USB 2.0

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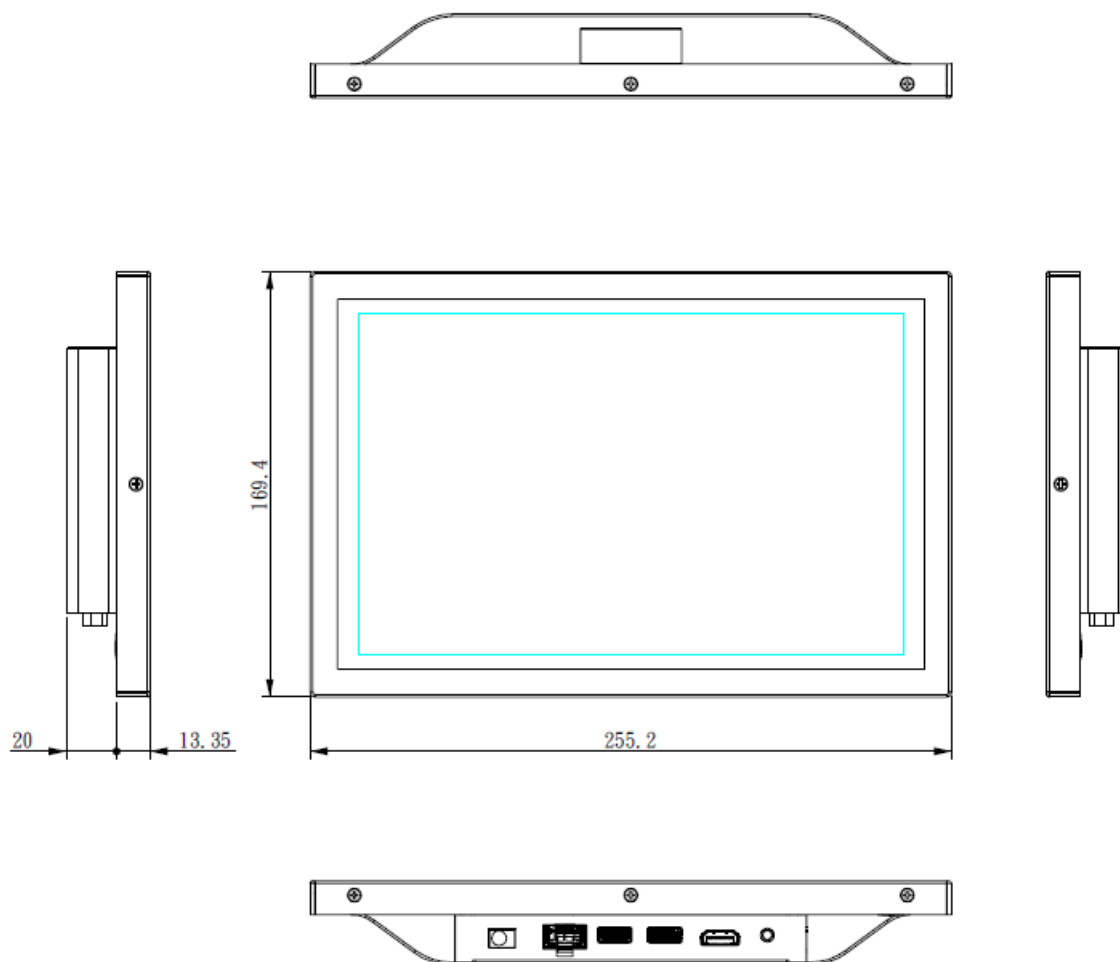
Subject

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❖ Dimensional Data



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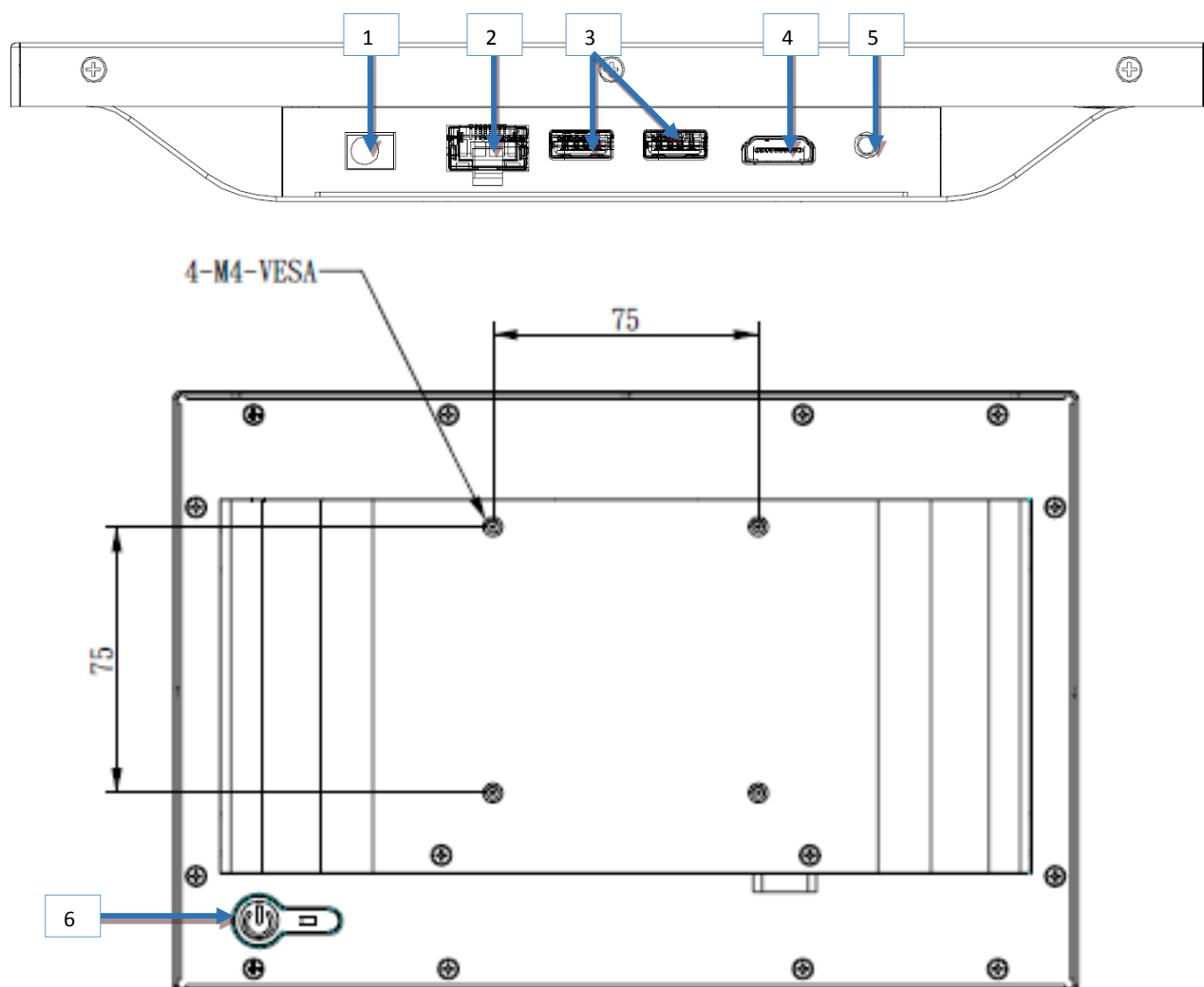
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❖ Description of the parts



Item	Description
1	External power supply
2	RJ45 Ethernet for TCP/IP connection
3	2x USB 2.0 slots
4	HDMI output (not available)
5	Auxiliary connector for music output (not available)
6	Power On/Off switch

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4.2 CSNET Manager 2 T15

❖ General characteristics

Item	Specifications
Power supply	AC adaptor: 1~ 100~240 VAC / 50~60 Hz Direct power supply by +12~24V DC
Consumption	(power adapter) 60W output (12V, 5A)
Outer dimensions	Width: 391 mm, Depth:37 mm, Height: 249 mm
Weight	2,68 kg
Assembling conditions	Indoor
Ambient temperature	0~40 °C
Humidity	0% ~ 90% Relative Humidity, Non-Condensing
Communication with (max. N°.)	CSNET Lite / HC-A64NET / PSC-A160WEB1 / CSNET Manager LT or XT (16 devices)
Type	TCP/IP communication
Connector	Ethernet (RJ45)
Communication line	2 twisted pair cable CAT5 or better (T-568A/T568B)
Communication system	Full-duplex
Length	Max. 100 m according IEEE 802.3
Maximum number of IU	1024

❖ Hardware characteristics

Item	Specifications
DISPLAY	
LCD size	15.6", 16:9
Display	WXGA
Resolution	1280 x 800
Contrast ratio	800
Touch screen	Projective Capacitive
SYSTEM	
CPU	Intel Atom Z3735F 1.33GHz Processor
System memory	2GB DDR3L
Hard Disk	32GB eMMC
CONNECTIONS	
Ethernet	1 x RJ45
Wi-Fi	802.11 b/g/n (SIP) (not used)
VGA	1 x HDMI (not used)
USB	2 x USB 2.0

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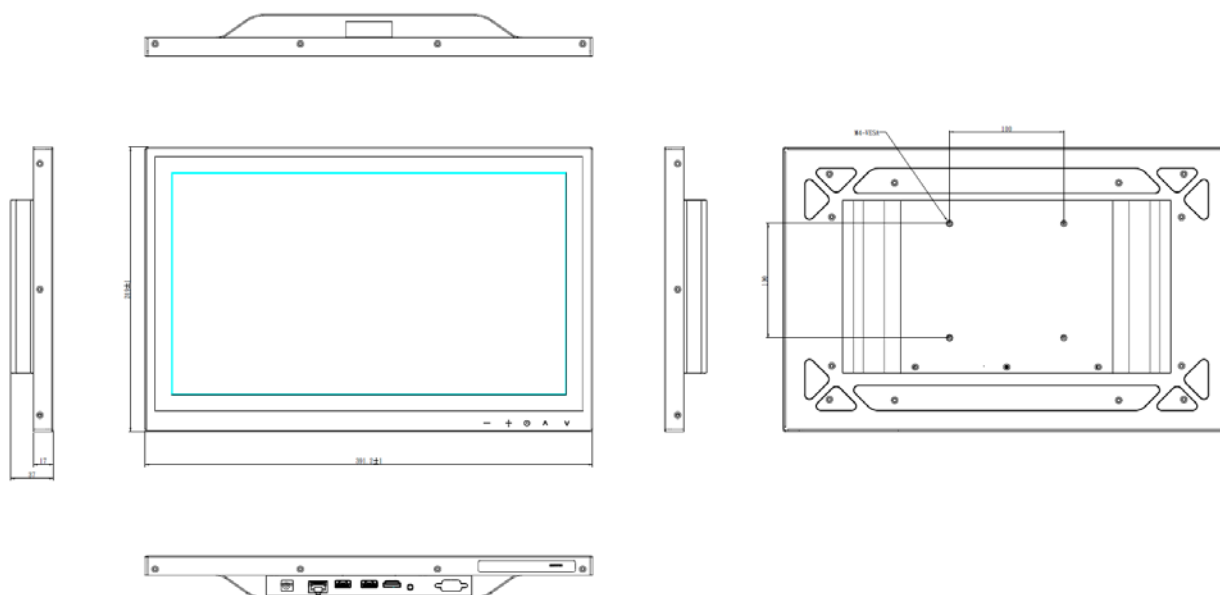
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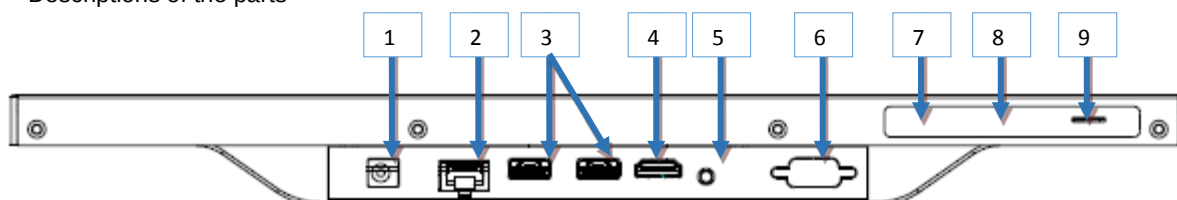
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❖ Dimensional Data

6



❖ Descriptions of the parts



Item	Description
1	External power supply
2	RJ45 Ethernet for TCP/IP connection
3	2x USB 2.0 slots
4	HDMI output (not available)
5	Auxiliary connector for music output (not available)
6	VGA output (not available)
7	Bright up/down buttons
8	Power On/Off switch
9	Volume up/down buttons (not available)

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4.3 CSNET Manager 2 SL

❖ General characteristics

Item	Specifications
Power supply	AC adaptor: 1~ 100~240 VAC / 50~60 Hz - Direct power supply by +12~24V DC
Consumption	(power adapter) 60W output (12V, 5A)
Outer dimensions	Width: 168,5 mm, Depth: 17,5 mm, Height: 105,2 mm
Weight	0,535 kg
Assembling conditions	Indoor
Ambient temperature	0~55 °C
Humidity	10% ~ 95% @40°C Relative Humidity, Non-Condensing
Communication with (max. N°.)	CSNET Lite / HC-A64NET / PSC-A160WEB1 / CSNET Manager LT or XT (16 devices)
Type	TCP/IP communication
Connector	Ethernet (RJ45)
Communication line	2 twisted pair cable CAT5 or better (T-568A/T568B)
Communication system	Full-duplex
Length	Max. 100 m according IEEE 802.3
Maximum number of IU	1024

❖ Hardware characteristics

Item	Specifications
SYSTEM	
CPU	Intel Atom Z3735F 1.33GHz Processor
System memory	2GB DDR3L
Hard Disk	32GB eMMC
CONNECTIONS	
Ethernet	1 x RJ45
Wi-Fi	802.11 b/g/n (SIP) (not used)
VGA	1 x HDMI 1.4
USB	2 x USB 2.0 (Type A)

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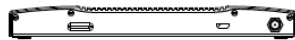
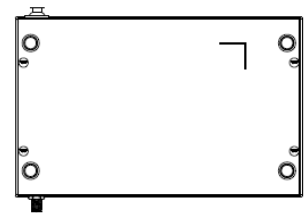
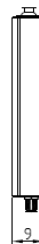
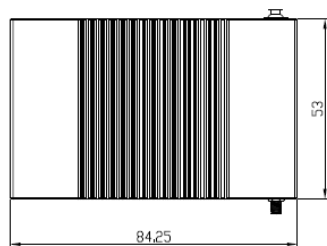
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❖ Dimensional Data



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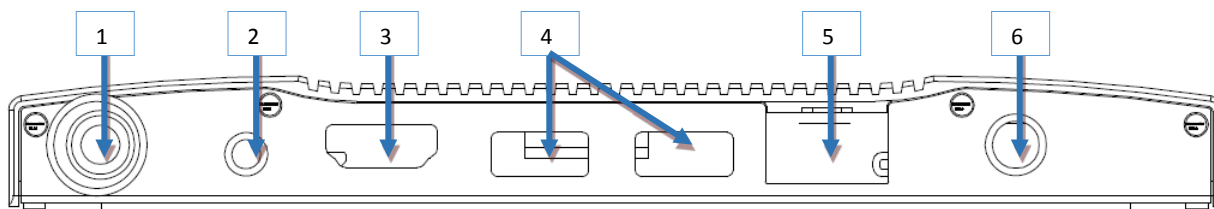
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❖ Descriptions of the parts



Item	Description
1	Power On/Off switch
2	Auxiliary connector for music output (not available)
3	HDMI output (not available)
4	2x USB 2.0 slots
5	RJ45 Ethernet for TCP/IP connection
6	External power supply