

DATASHEET - NCT930PVCU64R CONTROL SERVER

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT



DESCRIPTION - NCT930PVCU64R PA & GA System Central Control Server

The NCT930PVCU64R is an innovative PA & GA Control Unit designed to bring enterprise-grade Unified Communications and Security Protection features to small-to-medium businesses (SMBs) in an easy-to-manage fashion. Powered by an advanced hardware platform and revolutionary software functionalities, the NCT930 Series offers a breakthrough turnkey solution for converged voice and data, security surveillance, and mobility applications out of the box without any extra license fees or recurring costs.

FEATURE

- Server of IP network audio system and IP PA system.
- Support redundancy architecture.
- Support for dynamic or static IP addresses.
- Support line supervision, with easy UI to operate the IP system.
- Built-in management software set up, system monitor, media player, program timer, system memory functions.
- Each equipment working status could be monitored and displayed on this software.
- For maxi 64 zones by 1 unit.

HARDWARE CONFIGURATION

CASE	Color	black
	Dimensions	420(width) *430 (depth) *45 (height)
	Structure	1U standard case, high quality galvanized steel

Display	Core	Intel®HD Graphics4000
Memory	SDD	2* DDR3 SODIMM memory slot, supports dual channel 1333/1066mhz memory, up to 16GB
Hard Disk	SATA	2* 2.5 inch or 1*3.5 inch hard disk expansion

Front panel interface	USB	2* USB2.0
	Switch	1* power switch
	Indicator	1* hard disk indicator
1* power indicator		
Back panel interface	VGA	1* VGA display output
	ower supply	1* ATX power supply interface
	LAN	2* RJ45 Gigabit network interface
The power supply	Power	220V

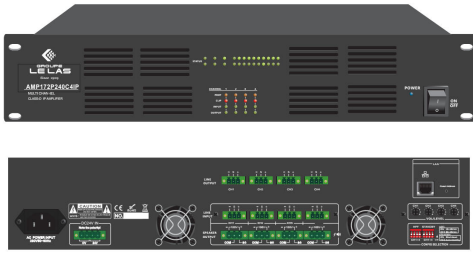
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DATASHEET - AMP172P240 IP AMPLIFIER

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT



DESCRIPTION - AMP172P240 Range IP Amplifier

AMP172P240 range networked amplifier is a kind of fully networking digital analog-digital signal processor supporting 100/10Mbps self-adaptation TCP/IP network transmission protocol, with features of minimum power consumption and higher efficiency up to 85%, 2 U 19" rack mount design helps to save rack space, generate less heat.

AMP172P240 range rated power output is 2x480W or 4x240W, could be used as 2 or 4 zones multiple IP PA system. Ethernet inputs for each channel with gain control. 2 or 4 separate zone speaker outputs both by 100V & 4-16ohms. The built-in 2 or 4 channel separate high-pass filters could be enabled or disabled through the dip switch pre-setting.

Visual working status indicators include protection, clip, input and output for easy supervision. With complete short circuit, overload, high temp, clip and DC protection.

Switchable AC power supply from 115V to 230V.

FEATURE

- ◇ Built-in IP network audio decoder and PA 240W digital Class-D power amplifier for each channel.
- ◇ Built-up over existing LAN/WAN network system, non-dedicated network system is needed, support over gateway and over router
- ◇ With 100V speaker outputs by screw terminal
- ◇ Over LAN/WAN or Internet. Minimum cable connection by using existing network framework. Compatible with LE LAS's multiple PAGA system
- ◇ Simple system configuration and device status read through browser and realize channel setting

SPECIFICATION

Model	AMP172P240C4/IP
Description	960W Power IP Amplifier
Rated Power Output	2x480W or 4x240W
Protocol Support	TCP/IP, UDP, IGMP (Multicast)
Transmit Speed	10/100Mbps
Audio Format	16 digit stereo CD tone
Frequency Response	20Hz~16KHz
Speaker Output	100 V
THD	≤0.3%
S/N Ratio	>85dB
Working Temperature	-5°C to 55°C
Power Consumption	1100W
Humidity	10% to 90%
Power Supply	AC220V, 50-60Hz
Dimension	480(W)x420(D)x88(H) mm
Weight	9.5 kg

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DATASHEET - CFT900PV1AIG ALARM GENERATOR

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

FEATURE

- ◇ Support MP3, WAV format
- ◇ Support SPIFLASH to be simulated as a USB, directly update the voice in SPIFLASH like operating a USB flash driver
- ◇ Support 30 levels of volume adjustment
- ◇ Support cycle times setting
- ◇ Support external input audio and MP3 audio mixing, external input, MP3 output, external input and MP3 mixing three output switching
- ◇ Support sip2.0 (RFC3261)
- ◇ Support IGMP
- ◇ Support contact control



DESCRIPTION

As an integral assembly in PA&GA system. The Alarm Generator is responsible for generating the tone messages that are broadcast over the system speakers during emergency conditions.

With 4 audio sources by module, the Alarm Generator can store pre-record alarm ton or background music by .MP3 or .wav format.

It has a 10/100M Ethernet interface and supports G.711 audio decoding. it receives audio data from central Paging console and plays out in real time. Configure one line input and one line output, which can output the internal sound source to the external power amplifier, as well as Mic input.

SPECIFICATION

Model	CFT900PV1AIG
Description	Alarm Generator and Audio gateway
USB Port	2.0
Protocol	TCP/UDP/ARP/ICMP/DHCP/DNS/IGMP
Frequency	70 to 12.5KHz
Contact control	0-5V
Input Voltage	220 Vac
Current Rating	Standby Current: 500 A; Operating Current: 10mA
Operating temperature	-45°C to 85°C
Installation	19" rack mount
Case size	483(W)*44(H)*145(D)mm

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DATASHEET - NCT900PVCX320 ANALOG GATEWAY

VOIP TELEPHONE NETWORK UNIT



DESCRIPTION

NCT900PVCX320 work as analog gateway that makes connection between FXO/FXS and VoIP SIP, that allows other SIP terminals to register into themselves.

NCT900PVCX320 analog gateway product have excellent properties and stable performance. with scalable modular design, it is easy to expand according to customers' requirements.

NCT900PVCX320 analog gateway administers 4 to 32 ports FXO/FXS, 16 to 1024 SIP Users

The operating system of the NCT900PVCX320 is programmed using the latest, object-orientated software. this means that all present and future requirements in the fields of Intercom systems, Paging and Alarm systems, etc. can be met - fully and digitally.

FEATURES

- With a new generation of processor, a separate high-end DSP processing chip and powerful hardware processing,
- **Comfort Noise Generation (CNG), to provide the same experience as PSTN in calls**
- Support the control from superior GK or SIP Server to complete the trunk-ing calls
- Adaptive dynamic buffer technology, to meet the application under bad network.
- G.168 128ms echo cancellation technology, eliminating the echo interference caused by long distance call
- DTMF detection / generation technology, to effectively support the business of the fax, callback, second dial.
- Voice Activity Detection (VAD), to effectively save bandwidth resources
- Flexible routing: Support regular expression, time dependent routing, and packet routing
- Multi-router/ bureau management, group, cluster and exchange management, intelligent routing distribution/equal traffic sharing.
- Flexibly control the incoming and outgoing of lines, the lock of long-distance calls can be controlled by the phone
- High processing capacity in conference.
- Monitor and handle real-time telephone traffic

TECHNICAL DATA

SOLT FOR PSU/MCU	• N/A(Built-in)
SLOT FOR ANALOG USER CARD	• 1
ANALOG FXO/PXS PORT(CO LINE /EXTENSION)	• 4 to 32
E1 / T1 PORT(PCM) OPTIONAL	• 0 to 4
VOIP IP CHANNEL	• 128
SIP SUBSCRIBERS (OPTIONAL)	• 16 to 1024
SIP COMPATIBILITY	• CISCO, Siemens, AVAYA, Huawei, etc.
CONSOLE PORT	• 1 (RS232 port)
ETHERNET PORT	• 2 (10/100/1000M Base-T)
INPUT VOLTAGE	• DC -48V or AC 110-240V
POWER	• 40W
DIMENSION	• 480mm X 325mm X 44mm-(1U)
WEIGHT	• 5KG

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DATASHEET - NCT900XC160 ANALOG GATEWAY

VOIP TELEPHONE NETWORK UNIT



DESCRIPTION

NCT900XC160 work as analog gateway that makes connection between FXO/FXS and VoIP SIP, that allows other SIP terminals to register into themselves.

LE LAS's NCT 160MG analog gateway product have excellent properties and stable performance. with scalable modular design, it is easy to expand according to customers' requirements.

NCT900XC160 analog gateway administers 16 ports FXO/FXS, 200 SIP Users

The operating system of the NCT900XC160 is programmed using the latest, object-orientated software. this means that all present and future requirements in the fields of Intercom systems, Paging and Alarm systems, etc. can be met - fully and digitally.

FEATURES

- With a new generation of processor, a separate high-end DSP processing chip and powerful hardware processing,
- **Comfort Noise Generation (CNG), to provide the same experience as PSTN in calls**
- Support the control from superior GK or SIP Server to complete the trunk-ing calls
- Adaptive dynamic buffer technology, to meet the application under bad network.
- G.168 128ms echo cancellation technology, eliminating the echo interference caused by long distance call
- DTMF detection / generation technology, to effectively support the business of the fax, callback, second dial.
- Voice Activity Detection (VAD), to effectively save bandwidth resources
- Flexible routing: Support regular expression, time dependent routing, and packet routing
- Multi-router/ bureau management, group, cluster and exchange management, intelligent routing distribution/equal traffic sharing.
- Flexibly control the incoming and outgoing of lines, the lock of long-distance calls can be controlled by the phone
- High processing capacity in conference.
- Monitor and handle real-time telephone traffic

TECHNICAL DATA

VOIP PROTOCOL	• SIP
CODEC	• G.711 U-Law and A-Law, G.711 Appendix 1, G.723.1 and G.723.1 Annex A, G.729 Annex A and Annex B
NETWORK PROTOCOL	• IP, NAT, ICMP, ARP, HTTP, BOOTP, FTP, TFTP, DHCP, PPPoE, SNMP, Diff-Serv
FAX PROTOCOL	• T30, T38, pass through
ADVANCED VOICE PROCESSING TECHNOLOGY	• Voice Activity Detection (VAD), Comfort Noise Generation (CNG), Echo Cancellation, DTMF, Caller ID
ANALOG FXO/FXS PORT(CO LINE/EXTENSION)	• 4 to 16
SIP USER	• 200
SIP COMPATIBILITY	• CISCO, Siemens, AVAYA, Huawei, ZTE, etc
ETHERNET PORT	• 1 (10/100/1000M Base-T)
INPUT VOLTAGE	• DC -48V or AC 110-240V
POWER	• 25W
DIMENSION	• 472mm X 260mm X 44mm-(1U)
WEIGHT	• 3.5KG

Access Panel

NCH-153

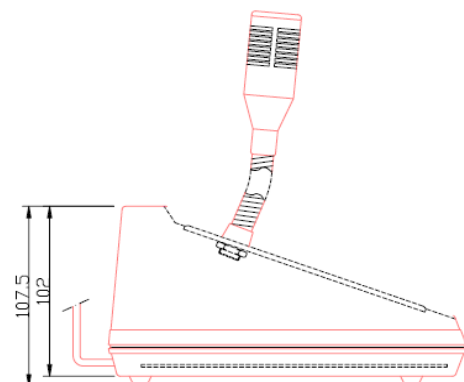
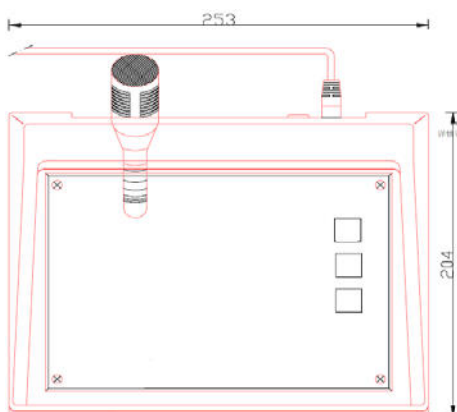
Feature:

- ✓ Touch screen type as demand. with microphone and 3 function buttons
- ✓ Embed PC technology, built-in DSP & high speed industrial chip to ensure start time less than 1 second.
- ✓ With 7 -inch LCD user-friendly human-machine interface for touch screen version.
- ✓ With touch screen control or one-key paging to any zone.
- ✓ Several paging capacities: zone paging, group paging, all zone paging, two-way intercom.
- ✓ Built-in 3W full-range monitor speakers with clear voice restoration and no echo noise.
- ✓ With USB input to broadcast pre-recorded voice message to different zones.
- ✓ Enable to transmit local sources to be broadcasted over network.
- ✓ Within one microphone input and one-line input and one-line output for sound system.
- ✓ 24V DC power supply, the power adapter (220VAC to 24VDC) is included in the packaging.



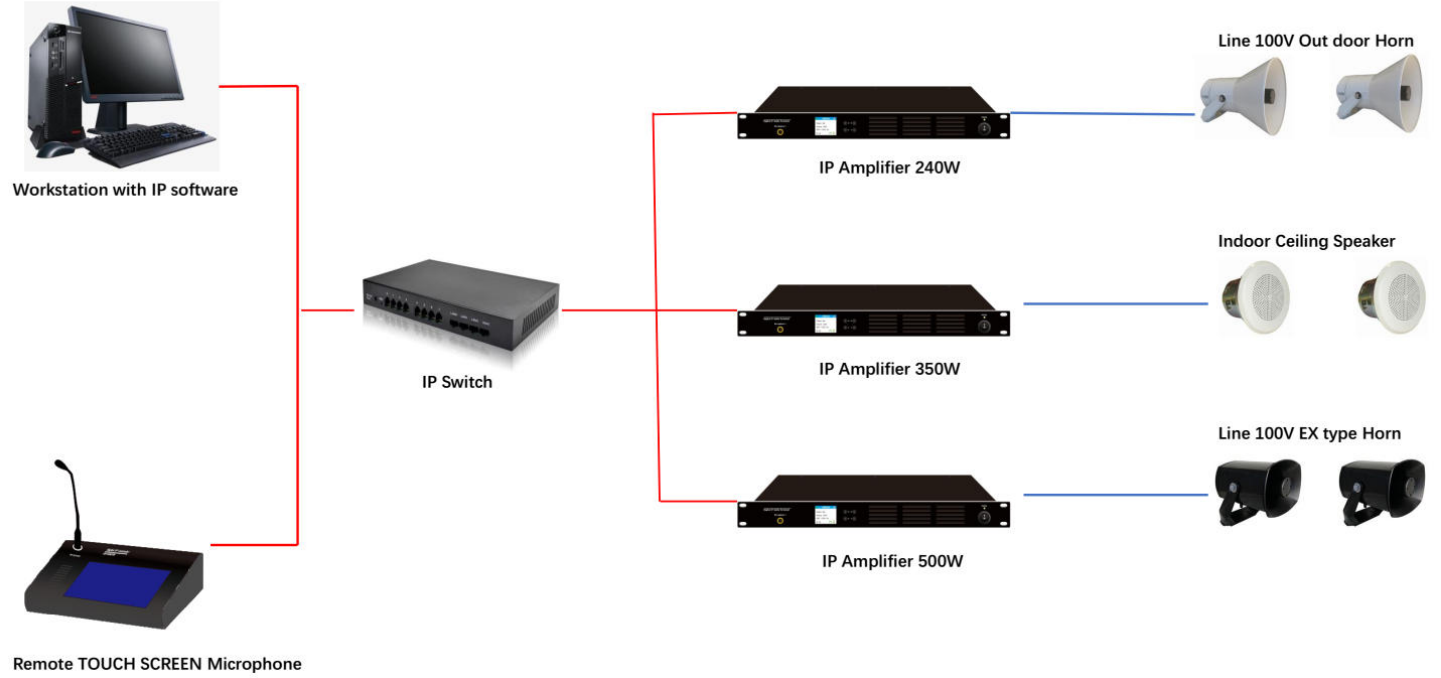
Specification:

Model	NCH-153 SAL
Description	IP Network Remote Access Console
Communication Protocol	TCP/IP, UDP, IGMP, ARP, UDP
Audio Format	MP3/MP2
Sampling Rate	8K~48KHz
Transmission Speed	10M/100Mbps
Frequency Response	20Hz~16KHz (+1dB, -3dB)
T.H.D.	≤0.3%
S/N Ratio	>70dB
Connector	One RJ45 port, one-line input, one-line output, one mic input, one USB input
Working temp	-5°C ~ +40°C
Humidity	10% ~ 90%
Power Consumption	≤10W
Power Supply	DC 24V
Dimensions	253x204x107.5 mm
Weight	2.5Kg



System Connection:

System Connection:



DATASHEET - NCT900AMAX16 AUDIO CONTROLLER

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

FEATURE

- ◇ 16-Channel audio input
- ◇ 16-Channel audio output
- ◇ 1 TCP/IP Port for communication
- ◇ 1 x RS232 interface for communication
- ◇ 1 x USB Port for communication



DESCRIPTION

The NCT900AMAX16 is a highly flexible system, making it suitable for use in both small and medium-sized audio Public Address installations.

The NCT900AMAX16 is a programmable digital audio controller with a wide range of features. Switching may be triggered in a number of ways including according to audio input priority levels. The NCT900AMAX16 also offers audio signal processing such as sound detection, noise gate, tone adjustment and a 5-band parametric equalizer.

Internal processing and signal processing are fully digital, using Digital Signal Processing (DSP) technology. DSP technology provides the NCT900AMAX16 with a wide range of audio signal processing options and at the same time allows extremely flexible configuration. This product is designed for use in applications where several high-quality audio sources need to be selected and broadcasted to several audio outputs.

The NCT900AMAX16 support DIGI-Lite "A+B" configuration, typical applications include offshore platforms, refineries plant, power and nuclear plants.

SPECIFICATION

Model	NCT900-AMAX-16 Or NCT900-AMAX-16A/B (for A+B structure)
Description	Audio Controller
Frequency response	20Hz–20kHz,+/-0.5dB
THD+N	<0.01%; 20Hz ~ 20kHz@+4dBu
Dynamic Range	114dB, ADC, DAC
Power Supply	100 to 240VA, 50/60Hz
CMRR	>70dB@1kHz
EIN	<-125dBu,22Hz-22kHz
Installation	19 " standard 1U height
Power consumption	75 W
Case size	482mm (L) x 464mm (W) x 44mm (H)
Product weight	2.0 Kg

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DATASHEET - NCT900TP2UMB TEST PANEL

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

DESCRIPTION - NCT900TP2UMB Test Panel

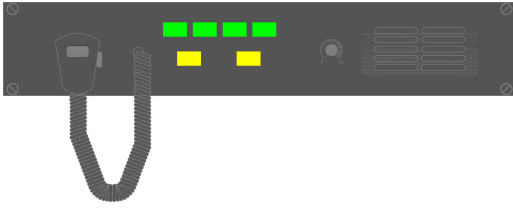
The ETP (engineering test panel) NCT900TP2UMB is a rapid access platform for broadcasting, test and maintenance operations.

It consists of :

- 1 x noise suppressor microphone with relative Push to talk(PTT) button
- 4 x green buttons for prerecorded messages / alarm audio broadcast
- 2x yellow lights for fault signaling with 1 yellow integrated pushbuttons for fault management and maintenance interventions.

From the ETP, each operator that have access to the cabinet can:

- Perform a test voice broadcast
- Broadcast four different alarms / pre-recorded messages
- Acknowledge a fault notification



FUNCTION

• Perform a test voice broadcast

- Hang up the microphone and hold on the PTT button
- The voice will be broadcasted to all zones
- Release the PTT button to end the broadcast

Note : ETP broadcast has the lower priority; any other broadcast is able to mute it

• Activate an alarm / prerecorded message broadcast

- Press and release one of the four green pushbuttons
- The relative green LED will becomes steady to confirm the activation
- The configured tone / pre-recorded message will be broadcast to the configured zones; even beacons could be activated, if configured
- Press again to stop the diffusion

Note : the four pushbuttons are customizable by the System configuration.

Factory defaults :

- MESSAGE 1 : Test Tone on Zone 1 (AMP 1);
- MESSAGE 2 : Test Tone on Zone 2 (AMP 2);
- MESSAGE 3: Test Tone on Zone 3 (AMP 3);

• Acknowledge a fault notification

In case of device fault / field fault , the system notify the event trough the internal buzzer, that start sounding, and the relevant "BUZZER ACK" yellow led, that stars flashing and "SYSTEM FAULT LED" that becomes steady.

To acknowledge the fault and stop the alarm notification (both buzzer sound and buzzer led) press the "BUZZER ACK" button. Contrary, the "SYSTEM FAULT LED" keep steady until the fault will be cleared.

MESSAGE CONFIGURATION

Actually the ETP push buttons have the following configuration:

- 1.MESSAGE 1 : Test Tone on Zone 1 ;
- 2.MESSAGE 2 : Test Tone on Zone 2 ;
- 3.MESSAGE 3: Test Tone on Zone 3 ;

It is possible to perform some configuration in order to modify the actual behavior.

Example:

Message 1 will change from Test Tone Zone 1 to Test Tone ALL ZONES

Message 2 will change from Test Tone Zone 2 to Evacuation Alarm

Message 3 will change from Test Tone Zone 2 to GFA Alarm

Here follows the Configuration for the three push buttons coming from the PAGA Controller

MESSAGE 1-3

Event selection	Message X
Zone configuration	Z1-Z32
Priority configuration	1-1000
Audio configuration	CH1-CH16
Timeout configuration	0-3000
Recover	Yes/No

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DATASHEET - RCT900PV1BMU BEACON LINE MONITOR

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT



DESCRIPTION- Beacon Line Monitor

The electronic circuit during stand-by operation, continuously monitors the beacons line status, for example an open or shorted condition status preventing a malfunctioning of the beacons.

The result of the line condition measurement, is available to a dedicated output that is connected to PAGA controller.

The connection is made by the wiring of the RS485 connector.

The circuit, during the stand-by operation also verifies the availability of the applied AC Power.

CONNECTORS

CN1 (5.0mm)	- 1 24VAC (Beacons testing voltage)
	- 2 24VAC (Beacons testing voltage)
CN2 (5.0mm)	- 1 Power Supply OUT for Beacons Line (Live) - to field
	- 2 Power Supply OUT for Beacons Line (Neutral) - to field
CN4 (5.0mm)	- 1 +24VDC power input
	- 2 GND (24Vdc)

SPECIFICATION

- ◇ Mechanical life: 1million operations
- ◇ Electrical life: 100,000 operations (inductive load 3A-24VAC)
- ◇ Insulation between adjacent contacts (1.2/50 μ s) : 28VAC Maximum operating AC
- ◇ Mains Voltage : 24VAC – 50Hz / 60Hz Maximum operating current :3A
- ◇ Maximum instantaneous current: 5A

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DATASHEET - RCT900PV1HMI ON LINE MONITORING SYSTEM

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

Feature:

- ✓ The integrated touch solution offers an edge-to-edge design, high-resolution and high-transmittance.
- ✓ 15.6" 1920 x 1080 FHD IPS LCD
- ✓ Quad-core Cortex-A17 CPU with High Performance dedicated 3D Processor
- ✓ Fan-less Cooling System
- ✓ Built- in 4GB Flash Memory and RTC
- ✓ Built-in Power Isolator



Specification:

Display	Display	15.6" IPS
	Resolution	1920x 1080
	Brightness (cd/m2)	300
	Contrast Ratio	800:1
	Backlight Type	LED
	Backlight Life Time	>30,000 hrs.
	Colors	16.2M
	LCD Viewing Angle (T/B/R/L)	89/89/89/89
	Pixel Pitch (mm)	0.17925(H) x 0.17925(V)
Touch Panel	Type	Tempered Glass, Capacitive Type 7H
Memory	Flash	4 GB
	RAM	1 GB
Processor		Quad-core 32-bit RISC 1.6GHz
I/O Port	SD Card Slot	N/A
	USB Host	USB 2.0 x 1
	USB Client	N/A
	Ethernet	10/100 Base-T x 1
	RS-485 Isolation	2
	Audio Output	Built-in Mono Speaker
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	1.3A@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MQ @ 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Environment	Protection Structure	NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60°C (-4° ~ 140°F)
	Operating Temperature	0° ~ 50°C (32° ~ 122°F)
	Relative Humidity	10% ~ 90% (non-condensing)

Order Number :

RCT900PV1HMI

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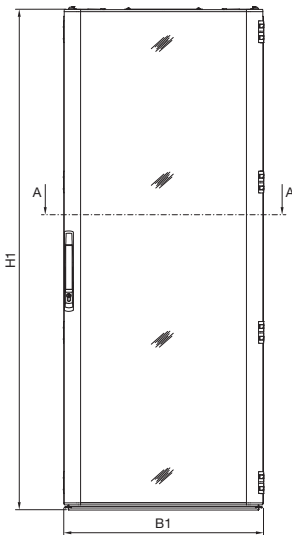
DATASHEET - TCT900PV42U NETWORK CABINET

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

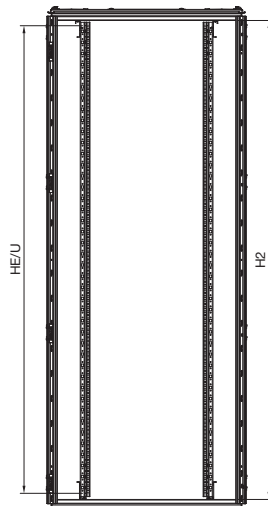
Network/server cabinet TCT900PV42U

with glass door, with 482.6 mm (19") mounting angles, width 800 mm, IP42

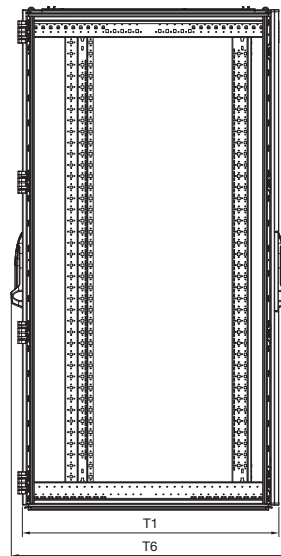
Front view



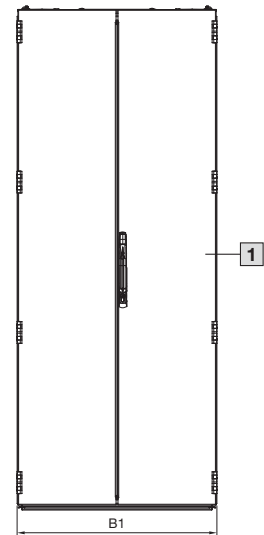
Front view without door



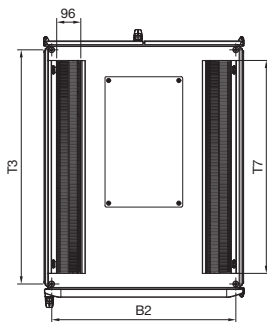
Side view



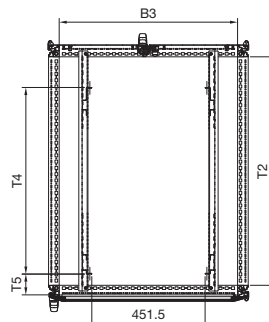
Rear view



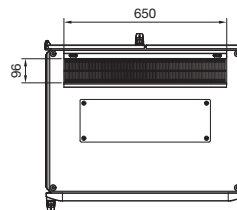
Top view



Section A – A



Top view, depth 600 mm



Enclosure

- B1 = Overall width
- B2 = Roof attachment spacing
- B3 = Clearance of enclosure frame
- H1 = Overall height
- H2 = Clearance of enclosure frame
- T1 = Overall depth
- T2 = Clearance of enclosure frame
- T3 = Roof attachment spacing
- T4 = Distance between 482.6 mm (19") levels
- T5 = Distance between frame and 482.6 mm (19") level
- T6 = Overall depth with handles
- T7 = Length of brush strips

1 For height 1200 mm one-piece door

Note:

- With fitted side panels, the overall width (B1) is increased by 9 mm.
- Between bayed enclosures, allow 3 mm for the seal.

Model No. DK	U	Width dimensions mm			Height dimensions mm		Depth dimensions mm						
		B1	B2	B3	H1	H2	T1	T2	T3	T4	T5	T6	T7
TCT900PV42U	42	797	735	712	1998.5	1912	824	712	735	545	147	911	650

Tolerance: ± 3cm

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