CALL RECORDER APRESA
Server Hardware Requirements
V4.2

(VC1927)

To support customers in the selection of the server hardware we present a guiding list below.

 **Note that APRESA software always requires a 64bit hardware platform.**

# Channels →	1-10 Ch APRESA-COMPACT	1 - 30 Ch APRESA	31 - 250 Ch APRESA
Processor	INTEL J1900B (2x 2.5 GHz)	INTEL Core i3 9100 (4x 3.6/4.2GHz Core i3 9100F (4x 3.6/4.2GHz)	INTEL Core i3 9100 (4x 3.6/4.2GHz) Core i3 9100F (4x 3.6/4.2GHz)
Memory	On board ITX 2GByte	8GByte	8GByte
Hard Drive	Drive size depends on the required recording capacity, see the table below		
DVD Drive	no	✓	✓
Power Supply	150W	250W	300W

The required hard drive capacity is a function of the required total recording capacity (hours) and the selected codec.

TOTAL RECORDING CAPACITY [HOURS]		C O D E C	
		G.711	GSM
HARD DRIVE CAPACITY	1 TByte	30.000	150.000
	2 TByte	60.000	300.000

The information listed below is only to support our "APRESA software only" customers in selecting the correct hardware for their specific call recording solution. The actual configuration of the APRESA servers supplied by Vidicode depends on the availability in the market of the PC components.

1-Configuration of the Vidicode APRESA server 1U, 4U:

Motherboard	: SUPERMICRO X11SCL-F
Processor standard	: INTEL Core i3 9100(F) 4-cores@3.6/4.2GHz 6MB cache
Memory	: 8GByte DDR4 (type according to Super Micro tested memory list)
Hard Drive	: 1TByte SATA (24x7) (Western digital Black, Gold or SE1 series);
DVD Drive	: Depreciated
Power supply standard	: 300W.

2-Configuration of the Vidicode APRESA-COMPACT server:

Motherboard	: ASROCK J1900B-ITX;
Processor standard	: INTEL J1900B INTEGRATED ON MOTHERBOARD (2-Cores@ 2.5 GHz);
Memory	: 2GByte SO-DDR3, like Crucial CT25664BF160B
Hard Drive	: 1TByte SATA (24x7) (Western digital Black, Gold or SE1 series);
Power supply	: 250W.

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3-The 5 APRESA-s in Super Micro racks.

SYS-TEM #	RACK HEIGHT	PSU *1	STORAGE	EXT. DRIVE BAYS	# I/F CARDS	SLIDERS
1	1U	STANDARD 200W	NORAID	0	1 (riser)	-
2		STANDARD 350W	NORAID RAID 1 RAID 10	4	1 (riser)	Included
3		REDUNDANT 400W				
4	4U	STANDARD 665W		5	3	Optional
5		REDUNDANT 800W				

*1 = for systems operating on 48VDC use the PWS-601-1R = Super Micro PSW 48VDC / 600W

SYSTEM COMPONENTS used:

Installation involves the normal installation procedure with some excess handling to install the latest LINUX distribution and SYNWAY card driver see the Apresa Installation Manual.

SYSTEM COMPONENTS currently used:

FUNCTION	COMPONENT:	SYSTEM:				
		1	2	3	4	5
Chassis	SuperMicro: CSE 510-203B	✓				
	SuperMicro: 813MTQ-350CB		✓			
	SuperMicro: 813MFTQC-R407CB			✓		
	SuperMicro: 842TQ-665B				✓	
	SuperMicro: 842XTQC-R804B					✓
Motherboard	SuperMicro X11SCL-F	✓	✓	✓	✓	✓
Processor	INTEL Core i3 9100(F) 4-cores@3.6/4.2GHz 6MB cache	✓	✓	✓	✓	✓
Pas.heatsink	SuperMicro SNK-P0046P	✓	✓	✓		
Memory	According to SuperMicro tested memory list for X11SCL-F (Select 8GB)	✓	✓	✓	✓	✓
Hard Drive	WD Black 3.5" 1 TByte 7200rpm, 64MB, 24x7		✓	✓	✓	✓
	Seagate 2.5" 1 TByte 5400rpm 128MB 24x7	✓				

Purchase advise to customers building an Apresa server <50 ch :

Motherboard	:	X11SCL-F
Processor	:	INTEL Core i3 9100(F) 4-cores@3.6/4.2GHz 6MB cache
Memory	:	8GBYTE approved Super Micro
PSU	:	400W

4 -The APRESA configuration that will show top performance.

For this configuration we advise:

FUNCTION	COMPONENT:
Chassis	SuperMicro 842XTQC-R804B, 2x800W redundant
Motherboard	SuperMicro X10SRi-F, LGA 2011
Processor	INTEL XEON E5-1620V3 (3,5GHz,10Mb 4Core 140W)
Heatsink, Active	LGA2011
Memory	According to SuperMicro tested memory list for X10SRi-F (select 2 x 8GB)
Hard Drive	WD Gold 1TB 7200rpm, 128MB, 24x7
DVD rewriter	Misc, brands

Optional RAID for this configuration:

Hardware RAID 1 or RAID 10 by adding Super Micro AOC-S3108L-H8iR hardware RAID controller + Cache/BBU option BTR-TFM8G-LSICVM02 with 2 or 4 pcs 6Gb /s SATA or SAS hard drives.

The use of RAID 5 is depreciated due to the poor writing performance and poor recovery results with today-s large capacity hard drives.

General Interface Card information:

Interface Card slot	: one PCIe for every Synway card. (card is X1, X4, X8, X16, X32 slot compatible)
Interface Card size	: ATP, DTP, DTP cards are full height / short length. (FHSL)

Full card height means an overall bracket height of approximately 12 cm)
Short card length means an overall card length of approximately 16 cm)

LAN card, tested list:

1) Digitus 10130-2 (RTL8168E controller)
2) TP-Link TG3468 (RTL83468E controller)
3) DeLock 89156 (RTL8111 controller)
4) DeLock 89357 (RTL8111 controller)

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