and 8051 Microcontoller. PM Y-8 (KONOWN as Port I) - power supply - It is inkernally pulled up, 40 } 39 bi-direction i/o port port o - doesn't serve any other RST [8] Pin 9 - Reset Ris 32 POH3 = 10-PSEN PID 29 Pin 10-17 - Port 3 - control signal 26 port 2 -interrupt8 used for interfacty 1/0 pox Pu 18-19 for enternal cryshil to external get sys clock. Crystal Power Pin 20 - Power supply Supply Pir 21 - 26 Port 2 I/O. thife Cycle of Pin 29 -> PSEN pin program Emsedded sys. store hable. Product Specification Phase - 1 Pis 32-39 Posto I/O HW-SW Partition Phase -2 Pir-30 - External accus input Iterection & implanetal pis 31 - demultiplen. Phone-3 Pi 40 - power supply. 8 Phase-4 Deteriled HWISW ncila. desp design PH HAM I D Phase - 5 MW/SWintegration Produtt HW Pesign spair Acceptance Jesty Phose-6 /w French HwParti" HIW Zoy Physe - 7 Maintainence Supprado S/w Produt Minopolesor Microcontroller releve heart of computer sys. - heart gran embedded sys. - You can't we in compact - you can use in Composet sys. - cost, of entire sys is low. - cost of entire sysius high, and complex and simple. - Power consumption is how. _ Power consumpris high _ offer power sawing feature - do not have power Sawing Jeature - based on Von-- based on harvard neumann model architecture.

Computer system	Embedded Dysten
Corre to the factor	
needs Human interaction to perform task	- does not need human istera?
	nandular
If how zports - Hardman	- 3 part software
Carlo A. Maria Maria Maria	1' 'Leel Loin's
Peldoms many fout	- perform dimited test
user has to pay more for	- leaser cost for embedded sys
a sys.	
	- need lesser power
need more opr power	and in use as compare to
Computer Sys. are difficult	eorputer SYS.
to use as compare to embedded	
needs more memory	- næd less mennong
to store decla	
A North Control of the Control of th	
RTOS	and to most. Externel to computer
wed in environment where a	large no g events in the or within certain
sys. must be accepted and	large no go events, mostly extend to computer processed in a stort time or within certain
Acadoms Aca	red in tenth of seconds.
+ Processing time is	the state of the s
-> syst is time-bound and	has a fixed account.
- Three types TRTOS	
	cal time real time os os (Small impact, missin a deadling
had real soft n time Os time	as os
I quantles	mme comments
(gurantles critical task	Some (Small impact, missing of deading relayaction (Con house unintediend consequers, including redur quality of product).
Completed withing arange of time)	redur auntib M p rodust).
arange of the	7000 7 97
Mari'mum consumption	of devices and system. Thus more output
-> Marimum consumption from all computer.	
4.0	
-> Error free.	Led been in the second second
yemony allocation is	hest managed
Lea La Pin	hedded syche.
- RTOS can ollso be com	bedded sys because size of wide & small-
	· Manual 18 I may

Apply of embedded sys. 1. 2051 Microcontaller. 1 - Central heating system. - convert chemial energy into themal energy delivered to numerous spaces withing a building - thermosted control is compulsory to adjust temp. which is achoived by embedded sys. -) used in -office building - factory - Grocey stores. 2 - ATM (Sutometic telly marky)

- computerized machine used is bally the commo with bank Conputy over network

- embedded sys in o I'm dipy the travactor deda & process input from ATM leyboard

- withduc cash -) ched (a coon bole - Deposit mony.

2- GPB SYST - new gation sys. Hat uses swallite and viewes to synch date related to loca, time, velocity.

-, embedded GPS dewle allow people to find thir locator & desta

-) cars ledence Palmtop.

3. filmes trader

menter health & truck activity.

- embedded sys. gonzar the duta related to activity ble heat rate , body temp. I no of toolstep.

- Medial non Lary - Sport trailing

(8) Medical denute

- help freet patient who need trequest montony & constant altern.

, embedded w sys. senson to gather data related to polit health like pulse take ready from implacts,

- dagonising - Ultrasoud Scanners.