

Product. Name: CPU
 Product. Code: Saksham CPU XXXX

In The Realm Of Industrial Automation The Programmable Logic Contriller Reigns Supreme Orchestrating Complex Machinery And Processes With Precision And Reliability At The Heart Of Every Plc Lies Its Central Processing Unit Cpu The Varitable Brain Of The Operation The Cpu Is Responcible For Executing The User Programmed Logic Interpreting Instruction And Controlling The Plc S Behavior This Involves Reading Input Signals From Sensors Processing Data And Generating Output Signals To Control Actuators And Other Devices The Cpu Manages The Plc Memory Storing Programs Data And System Parameters It Ensures Efficient Alloctaion And Access To Memory Resources Optimizing Performance And Preventing Data Corruption Modern Plcs Often Feature Communication Capabilities Allowing Them To Interact With Other Devices Networks And Hmis The Cpu Manages These Communication Protocols Ensuring Seamless Data Exchange And Control To Maintain System Reliability The Cpu Incorporates Self Diagnostic Functions It Continuously Monitor Its Own Operation And That Of Other Plc Components Detecting Potential Issues And Alerting Maintenance Personnel The Performance And The Reliability Of A Plc Are Heavily Dependent On The Capabilities Of Its Cpu A Powerful Cpu With Ample Memory And Advanced Featues Can Handle Complex Control Tasks Optimize System Performance And Enhance Overall Productivity.



General Information	
Product	Saksham CPU XXXX
Hardware Functional Status	From Jul22
Firmware Version	1.00.001
Firmware Update Possible	Yes
Engineering Software	Codesys
Display	No
Control Element Keys	No
Mode Button	No

Function	
I&M Data	Yes, I&M0 TO I&M3
Isochronous Mode	Yes
Configuration Control Via Data Set	Yes

Power Supply	
Normal Voltage	24 Vdc
Low Voltage	18.5 Vdc
High Voltage	28.5 Vdc
Reverse Polarity Protection	Yes
Supply Failure Stored Energy Time	1 Sec
Repeat Rate	1/S
Rated Input Current	1 Amp
Maximum Input Current	1.5 Amp
Inrush Current Max	2.0 Amp
Power	10 W
Power Loss	4.8 W

Memory	
Number Of Slot For Memory Card	1
Memory Card Required	As Per Requirements
Integrated Work Memory For Program	1 Mb
Integrated Work Memory For Data	128 Mb
Plug In Memory Card Maximum	32 Gb

Blocks	
DB (Number Range-Maximum Size)	1 Mb
FB (Number Range-Maximum Size)	1 Mb
Fb (Number Range-Maximum size)	1 Mb
OB	
Maximum Size	1 Mb
No Of Free Cycle	100
No Of Time Alarm	20
No Of Delay Alarm	20
No Of Cyclic Interrupt	20
No Of Process Alarm	50
No Of DPV1 Alarm	2
No Of Isochronous Mode	2
No Of Technology Synchronous Alarm	2
No Of Startup	100
No Of Asynchronous Error	4
No Of Synchronous Error	1
No Of Diagnostic Alarm	1

Counter	
Quantity	2048
Adjustable	Yes

Timer	
Quantity	2048
Adjustable	Yes

Data Area	
Retentive Data Area	256 Kb
Extended Retentive Data Area	256 Kb

Flag	
Maximum size	16 Kb
No Of Clock Memory	8 Kb

Data Block	
Retentivity Adjustable	Yes
Retentivity Preset	No

Local Data	
Per Priority Class Maximum	64 Kb

Address Area	
No. of Module	1024
IO address Area Inputs Outputs	32 kb 32kb
Integrated Io Subsystem Inputs Outputs	8kb 8kb
CM/CP Inputs Outputs	8kb 8kb
Maximum No. Of Sub Process Images	32

Hardware Configuration	
No Of Distributed Io Systems	32
No Of Dp Master With Cm	4
No. Of IO controller Integrated CM	1 4
Rack No.Of Modul Per Pack No. Of Lines	8 8

Time And Date	
Clock Type Backup Time Deviation Per Day	Hardware Clock 365 Days 10 Sec
Operating Hours Counter	16
Clock Synchronization Supported In Mater in Slave On Ethernet	Yes Yes Yes Yes

Interfaces	
No. Profinet /Modnet Interface	1
Interface Type Ethernet(RJ-45) No. Of Ports Integrated Switch	Yes 2 Yes
Protocols IP Protocols Modnet IO Controller Modnet Io Device Profinet Io Controller OPC Web Server Media Redundancy	Yes Yes Yes Yes Yes Yes Yes
Profinet Modnet Io Controller Serices Pg Op Communication Isocronous Mode Direct Data Exchange IRT Prioritized Startup No Of Connectable Io Device For Rt Updating Time	Yes Yes Yes Yes Yes 128 Minimum Valve For Updating Time Is Depends - On Communication Load
Update Time for IRT Send Cycle Of 250 ns Send Cycle Of 500 ns Send Cycle Of 1 ns Send Cycle Of 2 ns Send Cycle Of 4 ns	250 ns To 4ms 500 ns To 8ms 1ms To 16ms 2ms To 32ms 4ms To 64ms

Update Time for RT Send Cycle Of 250 ns Send Cycle Of 500 ns Send Cycle Of 1 ms Send Cycle Of 2 ns Send Cycle Of 4 ns	250 ns TO 128 ms 500 ns TO 256 ms 1ms TO 512 ms 2 ms TO 512 m 4 ms TO 512 ms
Profinet Modnet Io Device Services Pg Op Communication Isochronous Mode IRT Profienergy Shared Device Maximum No Of Io Controller With Shared Device Activation Deactivation Of IO Devices Asset Management Record	Yes No Yes Yes Yes 4 Yes Yes

Type Of Interfaces	
RJ-45 Ethernet 100 MBPS Autonegotiation Autocrossing Industrial Ethernet Status Led	Yes Yes Yes Yes

Function	
Max No Of Login Stations For Message Function	32
Program Alarm	Yes
No Of Configurable Program Messages	5000
No Of Loadable Program Message In Run	2100
No Of Simultaneously Active Program Alarms No Of Program Alarms Alarm For System Diagnostic Alarm For Moton Technology Objects	600 100 80

Supported Technology Objects	
Motion Control	Yes
Compact Pid Control	Yes
Feed Forward Pid Control	Yes
Temperature Pid Control	Yes
High Speed Counter	Yes

Ambient Condition	
Horizontal Installation Min	0 Degree Celcius
Horizontal Installation Max	60 Degree Celcius
Vertical Installation Min	0 Degree Celcius
Vertical Installation Max	60 Degree Celcius

Ambient Condition During Storage Or Transportation	
Minimum	0 Degree Celcius
Maximum	50 Degree Celcius

Programming Language	
Ladder Logic	Yes
FBD	Yes
CFC	Yes
SFC	Yes
STL	Yes
SCL	Yes

Protection	
Program Protection Password Protection	Yes
Copy Protection	Yes
Block Protection	Yes
Protection Of Confidential Configuration Data	Yes
Write Protection	Yes
Read Write Protection	Yes
Complete Protection	Yes

Measurement Data	
Dimension(W x H x D)	25 x 122 x 115
Weight	250g Approx