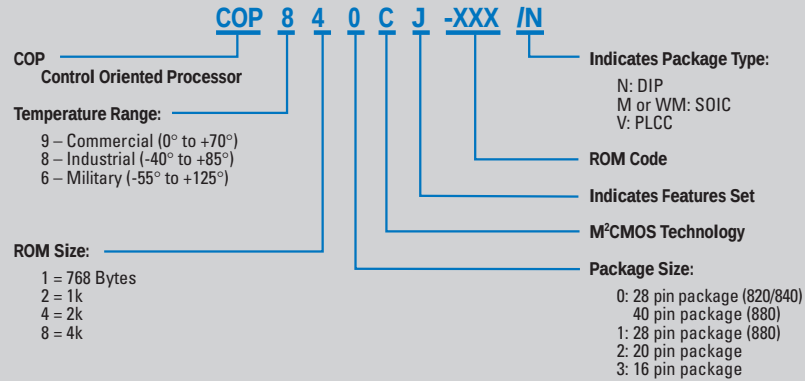
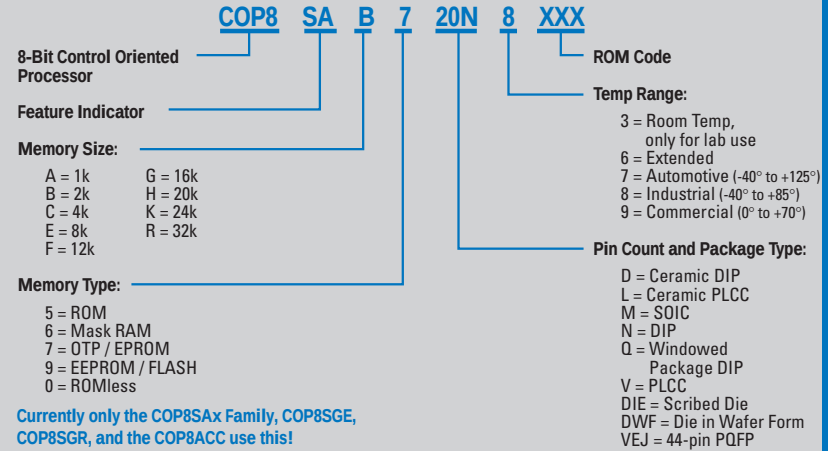


			Memory		Power Save Modules								Timers					Analog On-Chip Features			Communication Interfaces							
Page #	COP	32k OTP	ROM	RAM	HALT	IDLE	Interrupts	Brown-Out	WATCHDOG™	Reduced EMI	Clock Monitor	HW Multiply/Divide	Multi-Input Wake-up	Timer T0	16-Bit Multifunction Timer	Modulator/Timer	39kHz PWM Timer	100ns Capture Timer	Pulse Train Generator	A/D Converter	Analog Function Block	Comparators	MICROWIRE/PLUS™	USART	SPI-Interface	CAN-Interface	Power-On-Reset	Comments
Basic Family																												
2	820CJ		1k	64	√		3	√	√				√		1	1						1	√				√	
4	840CJ	√	2k	128	√		3	√	√	√			√		1	1						1	√				√	Internal R/C Oscillator
5	912C		768	64	√		3								1								√					Lowest Price
6	820C		1k	64	√		3								1								√					
7	840C		2k	128	√		3								1								√					
8	880C		4k	128	√		3								1								√					
Feature Family																												
10	888EB	√	8k	192	√	√	14		√	√	√		√	√	2					√			√	1	√	√		
11	884BC		2k	64	√	√	12			√			√	√	1		1					2	√			√	√	
12	888CL		4k	128	√	√	10		√		√		√	√	2								√					
14	888CF		4k	128	√	√	10		√		√		√	√	2					√			√					
15	888GD	√	16k	256	√	√	12		√	√	√		√	√	3					√			√					
16	888CS	√	4k	192	√	√	12		√		√		√	√	1							1	√	1				
17	888CG	√	4k	192	√	√	14		√	√	√		√	√	3							2	√	1				
18	888EG	√	8k	256	√	√	14		√		√		√	√	3							2	√	1				
20	888GG	√	16k	512	√	√	14		√	√	√		√	√	3							2	√	1				
21	888HG	√	20k	512	√	√	14		√	√	√		√	√	3							2	√	1				
22	888KG	√	24k	512	√	√	14		√	√	√		√	√	3							2	√	1				
23	888FH		12k	512	√	√	14		√	√	√	√	√	√	3							2	√	1				
24	888EK	√	8k	256	√	√	12		√	√	√		√	√	3						√	1	√					
26	888GW	√	16k	512	√	√	14			√		√	√	√	2			2	4				√	1				
27	8ACC		4k	128	√	√	9		√	√	√		√	√	1						√	1	√					
28	8SAA		1k*	64	√	√	8		√	√	√		√	√	1								√				√	Internal R/C Oscillator, *EPROM
30	8SAB		2k*	128	√	√	8		√	√	√		√	√	1								√				√	Internal R/C Oscillator, *EPROM
32	8SAC		4k*	128	√	√	8		√	√	√		√	√	1								√				√	Internal R/C Oscillator, *EPROM
34	8SGE		8k*	256	√	√	14		√	√	√		√	√	3							2	√	1			√	Internal R/C Oscillator, *EPROM
33	8SGR		32K*	512	√	√	14		√	√	√		√	√	3							2	√	1			√	Internal R/C Oscillator, *EPROM

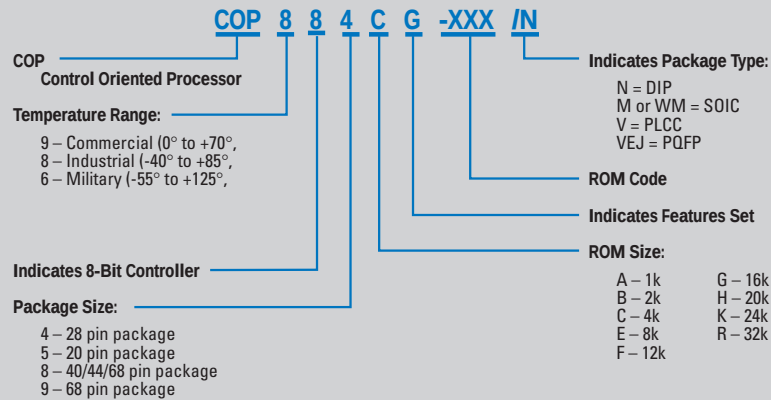
COP8 Basic Family Part Numbering Scheme



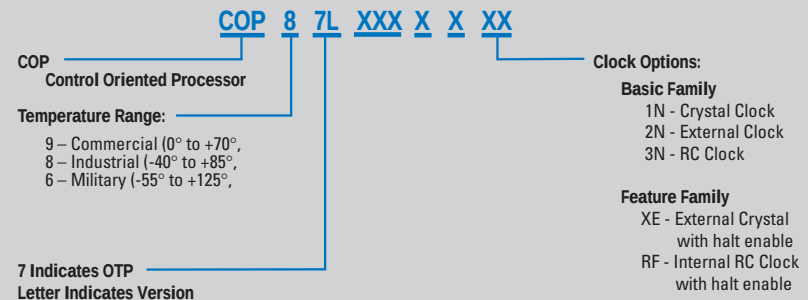
New COP8 Part Numbering Scheme



COP8 Feature Family Part Numbering Scheme

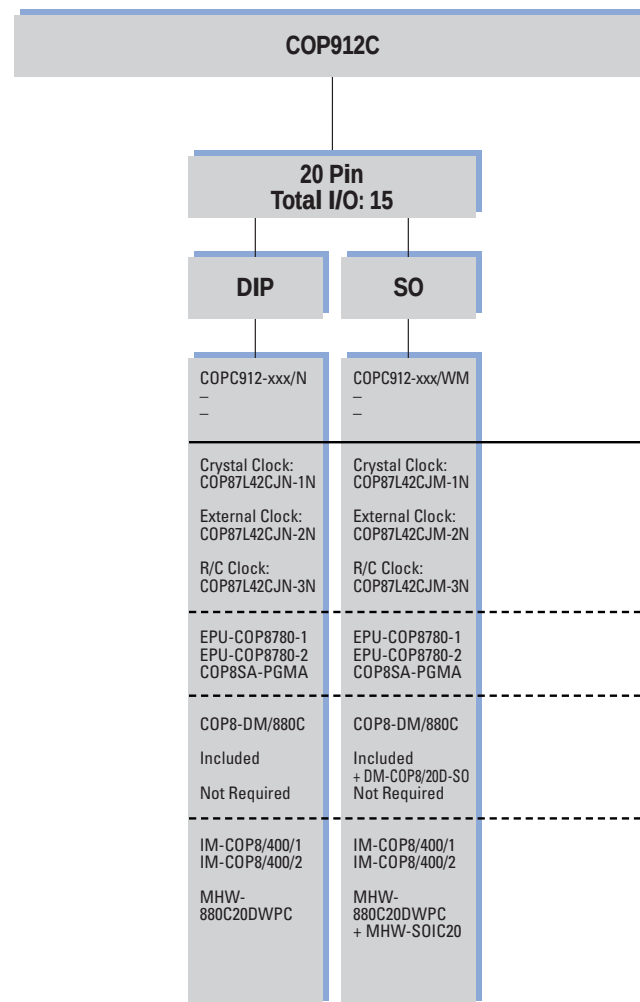
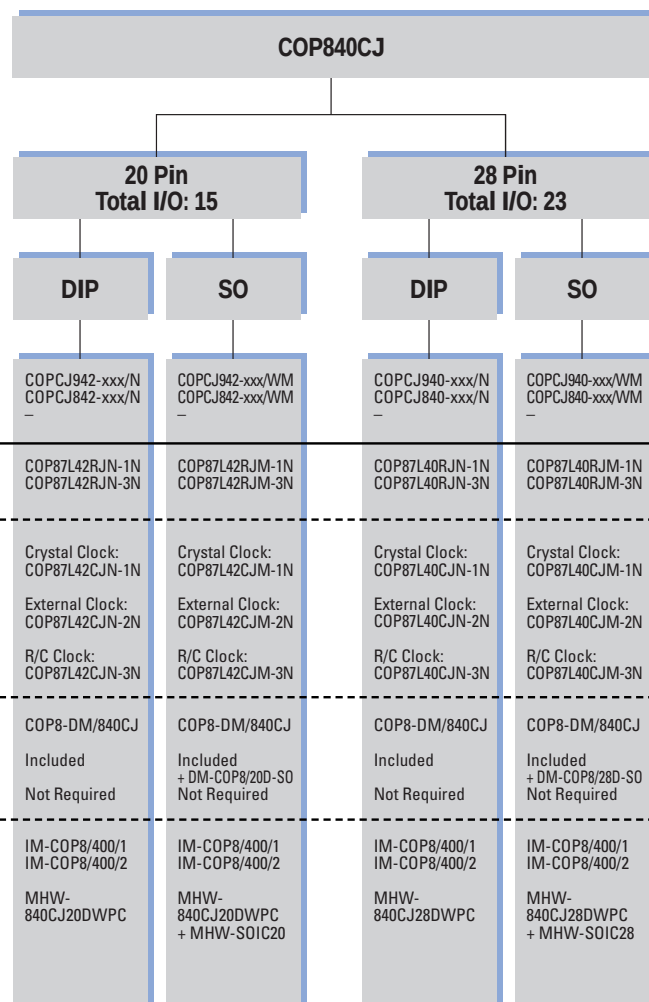


COP8 OTP Part Numbering Scheme



8

9



820C

840C

COP820C				
20 Pin Total I/O: 15		28 Pin Total I/O: 23		
DIP	SO	DIP	SO	
COPC922-xxx/N COPC822-xxx/N COPC622-xxx/N	COPC922-xxx/WM COPC822-xxx/WM COPC622-xxx/WM	COPC920-xxx/N COPC820-xxx/N COPC620-xxx/N	COPC920-xxx/WM COPC820-xxx/WM COPC620-xxx/WM	
Crystal Clock: COP87L42CJN-1N External Clock: COP87L42CJN-2N R/C Clock: COP87L42CJN-3N	Crystal Clock: COP87L42CJM-1N External Clock: COP87L42CJM-2N R/C Clock: COP87L42CJM-3N	Crystal Clock: COP87L20CJN-1N External Clock: COP87L20CJN-2N R/C Clock: COP87L20CJN-3N	Crystal Clock: COP87L20CJM-1N External Clock: COP87L20CJM-2N R/C Clock: COP87L20CJM-3N	
EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	
COP8-DM/880C	COP8-DM/880C	COP8-DM/880C	COP8-DM/880C	
Included Not Required	Included + DM-COP8/20D-SO Not Required	Included Not Required	Included + DM-COP8/28D-SO Not Required	
IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	
MHW-880C20DWPC	MHW-880C20DWPC +MHW-SOIC20	MHW-880C28DWPC	MHW-880C28DWPC +MHW-SOIC28	

COP840C			
20 Pin Total I/O: 15		28 Pin Total I/O: 23	
DIP	SO	DIP	SO
COPC942-xxx/N COPC842-xxx/N COPC642-xxx/N	COPC942-xxx/WM COPC842-xxx/WM COPC642-xxx/WM	COPC940-xxx/N COPC840-xxx/N COPC640-xxx/N	COPC940-xxx/WM COPC840-xxx/WM COPC640-xxx/WM
Crystal Clock: COP87L42CJN-1N External Clock: COP87L42CJN-2N R/C Clock: COP87L42CJN-3N	Crystal Clock: COP87L42CJM-1N External Clock: COP87L42CJM-2N R/C Clock: COP87L42CJM-3N	Crystal Clock: COP87L40CJN-1N External Clock: COP87L40CJN-2N R/C Clock: COP87L40CJN-3N	Crystal Clock: COP87L40CJM-1N External Clock: COP87L40CJM-2N R/C Clock: COP87L40CJM-3N
EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA
COP8-DM/880C	COP8-DM/880C	COP8-DM/880C	COP8-DM/880C
Included Not Required	Included + DM-COP8/20D-SO Not Required	Included Not Required	Included + DM-COP8/28D-SO Not Required
IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2
MHW-880C20DWPC	MHW-880C20DWPC +MHW-SOIC20	MHW-880C28DWPC	MHW-880C28DWPC +MHW-SOIC28

Mask Version

commercial temp.
industrial temp.
military temp.

OTP

EPU 110 V
220 V
prog. scrambler

Debug Module

+ target cable
+ SMD adaptor
+ prog. scrambler

iceMASTER

Probecard

+ SMD adaptor

Mask Version

commercial temp.
industrial temp.
military temp.

OTP

EPU 110 V
220 V
prog. scrambler

Debug Module

+ target cable
+ SMD adaptor
+ prog. scrambler

iceMASTER

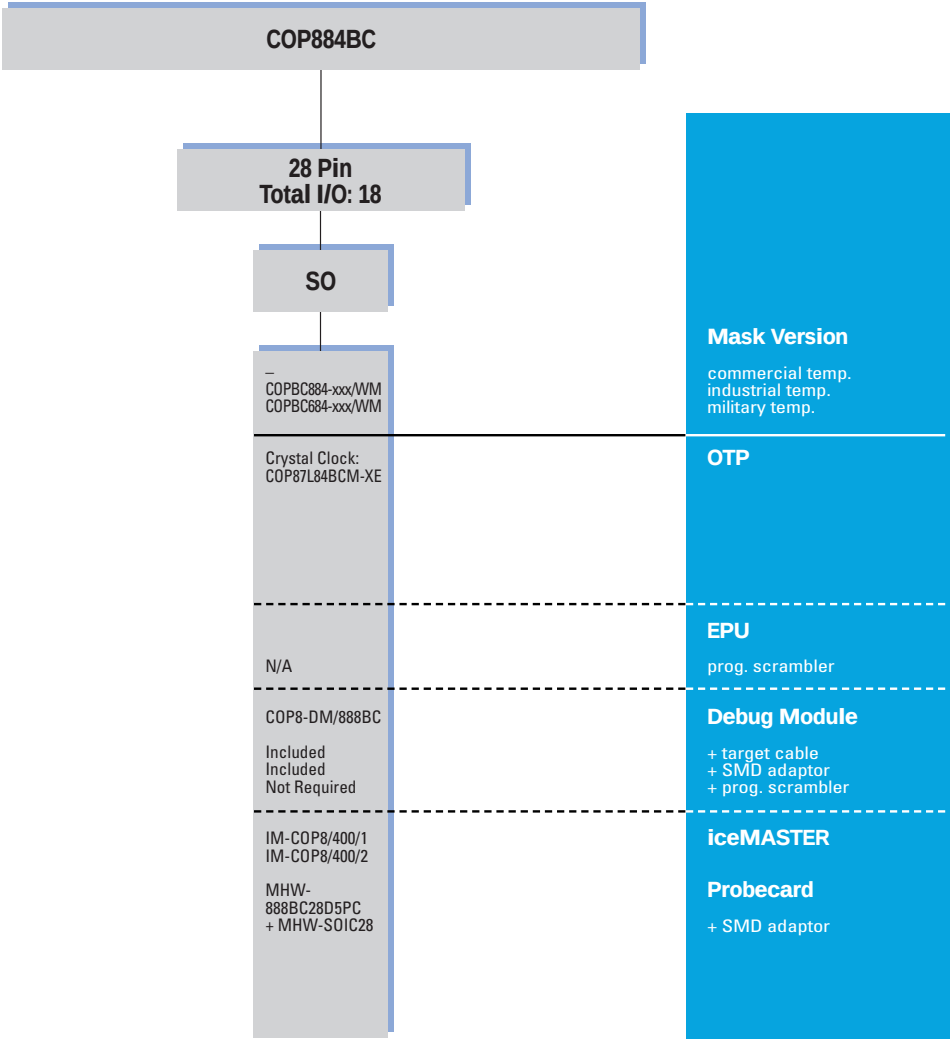
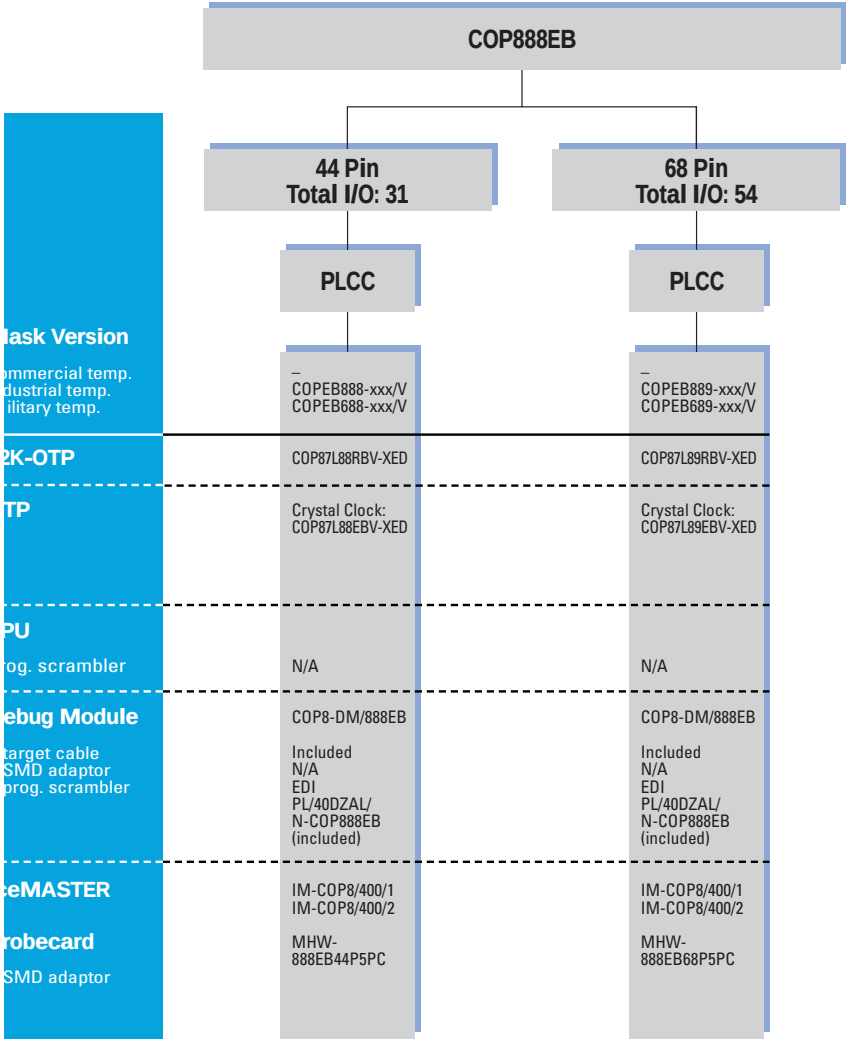
Probecard

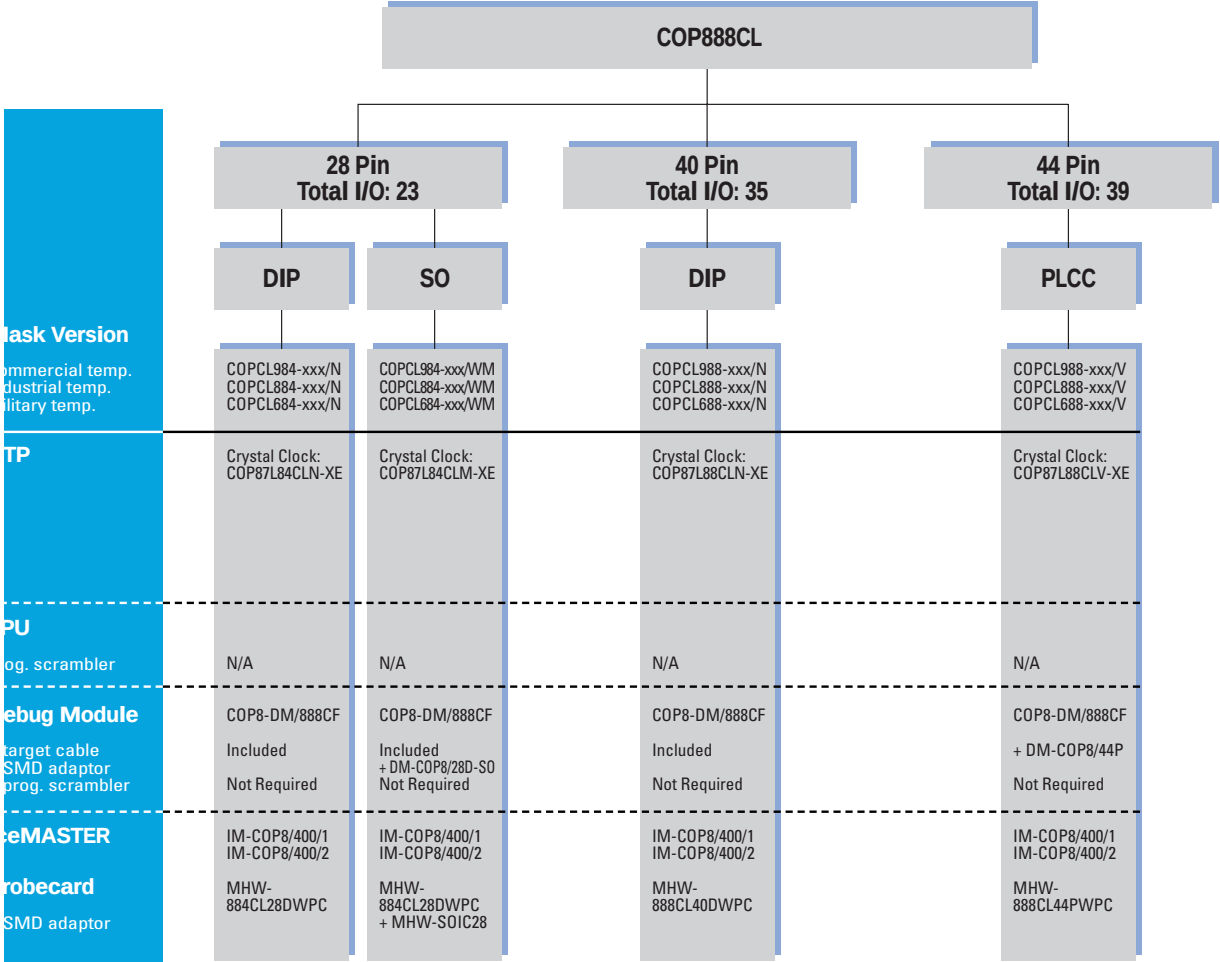
+ SMD adaptor

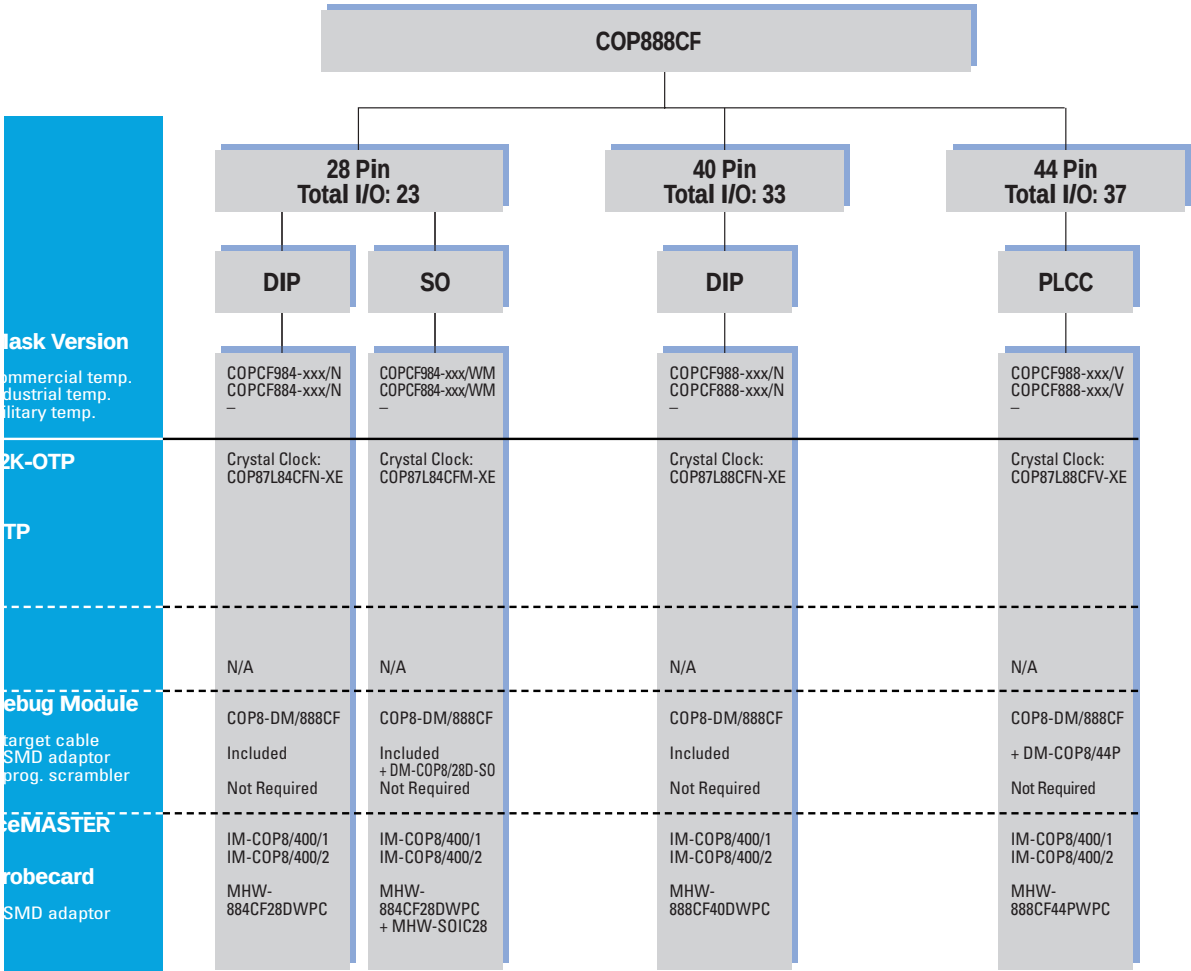
COP880C		20 Pin Total I/O: 15		28 Pin Total I/O: 23		40 Pin Total I/O: 35	44 Pin Total I/O: 35
		DIP	SO	DIP	SO	DIP	PLCC
Mask Version		COPC982-xxx/N COPC882-xxx/N COPC682-xxx/N	COPC982-xxx/WM COPC882-xxx/WM COPC682-xxx/WM	COPC981-xxx/N COPC881-xxx/N COPC681-xxx/N	COPC981-xxx/WM COPC881-xxx/WM COPC681-xxx/WM	COPC980-xxx/N COPC880-xxx/N COPC680-xxx/N	COPC980-xxx/V COPC880-xxx/V COPC680-xxx/V
OTP		Crystal Clock: COP87L42CJN-1N External Clock: COP87L42CJN-2N R/C Clock: COP87L42CJN-3N	Crystal Clock: COP87L42CJM-1N External Clock: COP87L42CJM-2N R/C Clock: COP87L42CJM-3N	Crystal Clock: COP87L40CJN-1N External Clock: COP87L40CJN-2N R/C Clock: COP87L40CJN-3N	Crystal Clock: COP87L40CJM-1N External Clock: COP87L40CJM-2N R/C Clock: COP87L40CJM-3N		
EPU 110 V 220 V prog. scrambler		EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2 COP8SA-PGMA	EPU-COP8780-1 EPU-COP8780-2	EPU-COP8780-1 EPU-COP8780-2
Debug Module		COP8-DM/880C Included Not Required	COP8-DM/880C Included + DM-COP8/20D-SO Not Required	COP8-DM/880C Included Not Required	COP8-DM/880C Included + DM-COP8/28D-SO Not Required	COP8-DM/880C Included Not Required	COP8-DM/880C + DM-COP8/44P Not Required
eMASTER		IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2
Probecard		MHW-880C20DWPC	MHW-880C20DWPC + MHW-SOIC20	MHW-880C28DWPC	MHW-880C28DWPC + MHW-SOIC28	MHW-880C40DWPC	MHW-880C44PWPC
SMD adaptor							

888EB

884BC







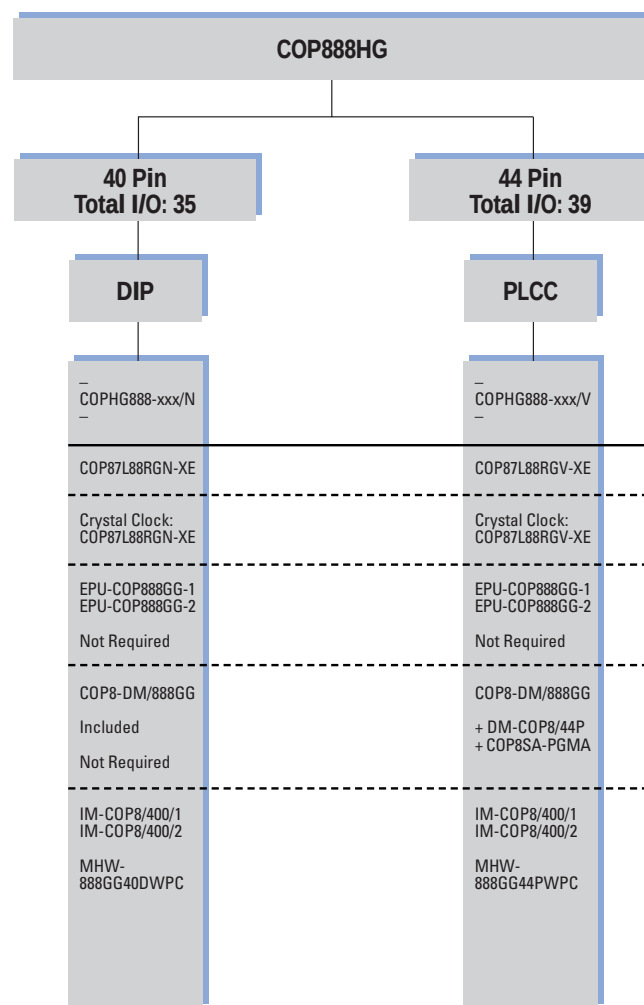
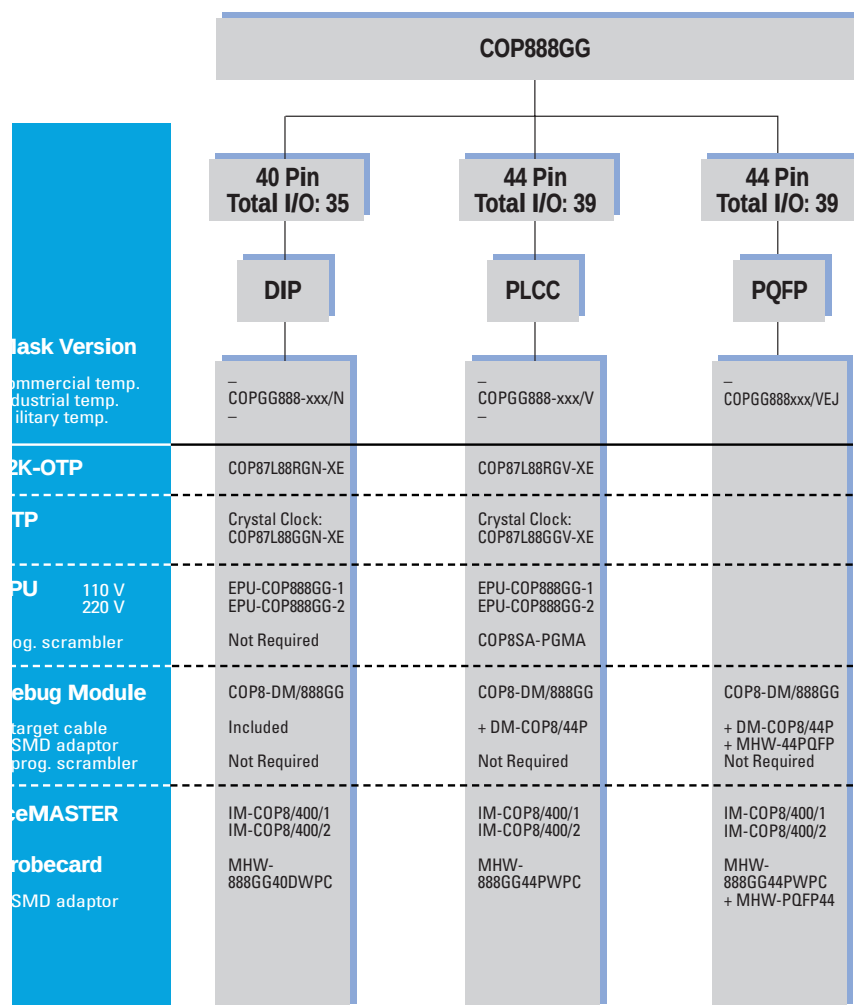
		COP888CS					
		28 Pin Total I/O: 23		40 Pin Total I/O: 35		44 Pin Total I/O: 39	
		DIP	SO	DIP	PLCC		
Mask Version	Commercial temp. Industrial temp. Military temp.	COPCS984-xxx/N COPCS884-xxx/N COPCS684-xxx/N	COPCS984-xxx/WM COPCS884-xxx/WM COPCS684-xxx/WM	COPCS988-xxx/N COPCS888-xxx/N COPCS688-xxx/N	COPCS988-xxx/V COPCS888-xxx/V COPCS688-xxx/V		
2K-OTP		COP87L84RGN-XE	COP87L84RGM-XE	COP87L88RGN-XE	COP87L88RGV-XE		
OTP		Crystal Clock: COP87L84EGN-XE	Crystal Clock: COP87L84EGM-XE	Crystal Clock: COP87L88EGN-XE	Crystal Clock: COP87L88EGV-XE		
PU	110 V 220 V	EPU-COP888GG-1 EPU-COP888GG-2	EPU-COP888GG-1 EPU-COP888GG-2	EPU-COP888GG-1 EPU-COP888GG-2	EPU-COP888GG-1 EPU-COP888GG-2		
	prog. scrambler	COP8SA-PGMA	COP8SA-PGMA	Not Required	COP8SA-PGMA		
Debug Module		COP8-DM/888GG	COP8-DM/888GG	COP8-DM/888GG	COP8-DM/888GG		
	target cable	Included	Included	Included	+ DM-COP8/44P		
	SMD adaptor	Not Required	+ DM-COP8/28D	Not Required	Not Required		
	prog. scrambler	Not Required	Not Required	Not Required	Not Required		
teMASTER		IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2		
robocard		MHW- 884CG28DWPC	MHW- 884CG28DWPC + MHW-S0IC28	MHW- 888CG40DWPC	MHW- 888CG44PWPC		
	SMD adaptor						

COP888CG				
28 Pin Total I/O: 23		40 Pin Total I/O: 35		44 Pin Total I/O: 39
DIP	SO	DIP	PLCC	
— COPCG884-xxx/N —	— COPCG884-xxx/WM —	— COPCG888-xxx/N —	— COPCG888-xxx/V —	Mask Version commercial temp. industrial temp. military temp.
Crystal Clock: COP87L84EGN-XE	Crystal Clock: COP87L84EGM-XE	Crystal Clock: COP87L88EGN-XE	Crystal Clock: COP87L88EGV-XE	OTP
EPU-COP888GG-1 EPU-COP888GG-2 COP8SA-PGMA	EPU-COP888GG-1 EPU-COP888GG-2 COP8SA-PGMA	EPU-COP888GG-1 EPU-COP888GG-2 COP8SA-PGMA	EPU-COP888GG-1 EPU-COP888GG-2 COP8SA-PGMA	EPU 110 V 220 V prog. scrambler
COP8-DM/888GG Included Not Required	COP8-DM/888GG Included + DM-COP8/28D-SO Not Required	COP8-DM/888GG Included Not Required	COP8-DM/888GG + DM-COP8/44P Not Required	Debug Module + target cable + SMD adaptor + prog. scrambler
IM-COP8/400/1 IM-COP8/400/2 MHW-884CG28DWPC	IM-COP8/400/1 IM-COP8/400/2 MHW-884CG28DWPC + MHW-SOIC28	IM-COP8/400/1 IM-COP8/400/2 MHW-888CG40DWPC	IM-COP8/400/1 IM-COP8/400/2 MHW-888CG44PWPC	iceMASTER Probecard + SMD adaptor

COP888EG		28 Pin Total I/O: 23		40 Pin Total I/O: 35	44 Pin Total I/O: 39	44 Pin Total I/O: 39
		DIP	SO	DIP	PLCC	PQFP
Mask Version		COPEG984-xxx/N COPEG884-xxx/N COPEG684-xxx/N	COPEG984-xxx/WM COPEG884-xxx/WM COPEG684-xxx/WM	COPEG988-xxx/N COPEG888-xxx/N COPEG688-xxx/N	COPEG988-xxx/V COPEG888-xxx/V COPEG688-xxx/V	COPEG888-xxx/VEJ
2K-OTP		COP87L84RGN-XE	COP87L84RGM-XE	COP87L88RGN-XE	COP87L88RGV-XE	
OTP		Crystal Clock: COP87L84EGN-XE	Crystal Clock: COP87L84EGM-XE	Crystal Clock: COP87L88EGN-XE	Crystal Clock: COP87L88EGV-XE	
EPU 110 V 220 V log. scrambler		EPU-COP888GG-1 EPU-COP888GG-2 COP8SA-PGMA	EPU-COP888GG-1 EPU-COP888GG-2 COP8SA-PGMA	EPU-COP888GG-1 EPU-COP888GG-2 Not Required	EPU-COP888GG-1 EPU-COP888GG-2 COP8SA-PGMA	
Debug Module		COP8-DM/888GG Included Not Required	COP8-DM/888GG Included + DM-COP8/28D-SO Not Required	COP8-DM/888GG Included Not Required	COP8-DM/888GG + DM-COP8/44P Not Required	COP8-DM/888GG + DM-COP8/44P + MHW-PQFP44 Not Required
SeMASTER		IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2	IM-COP8/400/1 IM-COP8/400/2
Probecard SMD adaptor		MHW-884EG28DWPC	MHW-884EG28DWPC + MHW-SOIC28	MHW-888EG40DWPC	MHW-888EG44PWPC	MHW-888EG44PWPC + MHW-PQFP44

888GG

888HG



888KG

Mask Version

commercial temp.
industrial temp.
military temp.

32K-OTP

OTP

PU110 V
220 V

prog. scrambler

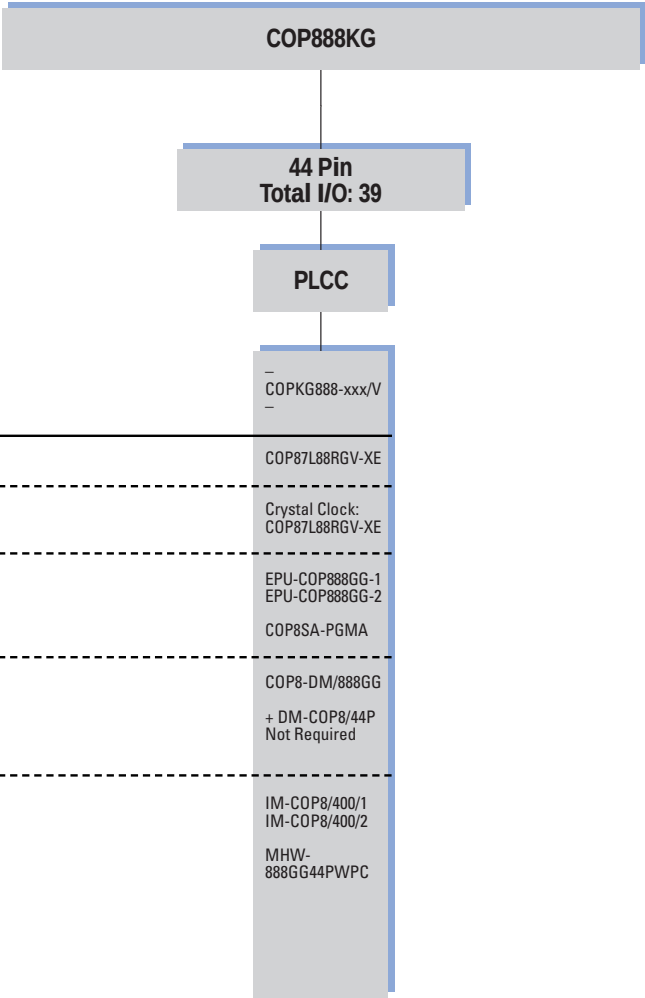
Debug Module

+ target cable
+ SMD adaptor
+ prog. scrambler

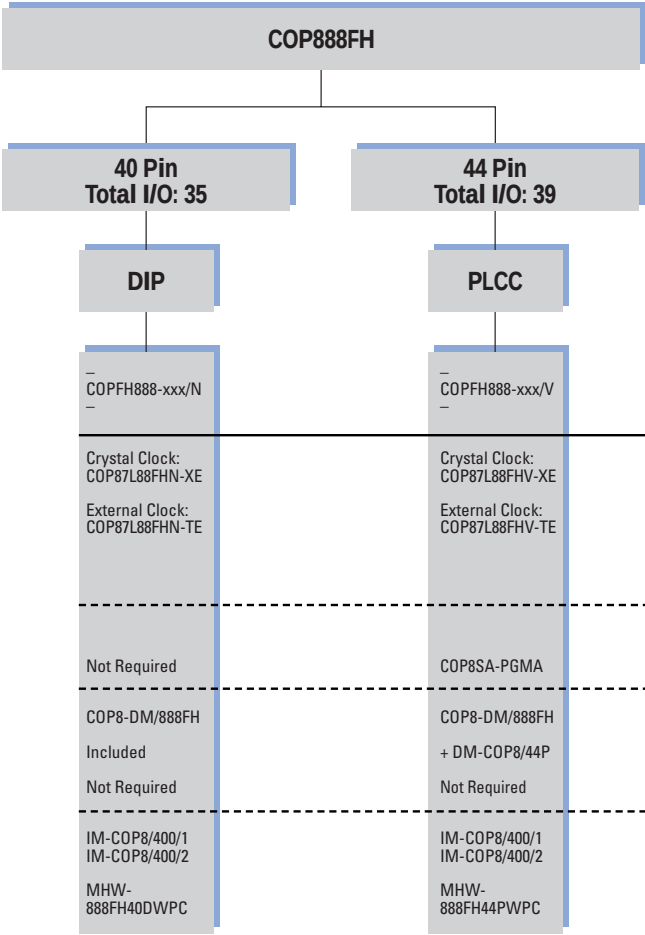
iceMASTER

Probecard

SMD adaptor



888FH



Mask Version

commercial temp.
industrial temp.
military temp.

32K-OTP

OTP

prog. scrambler

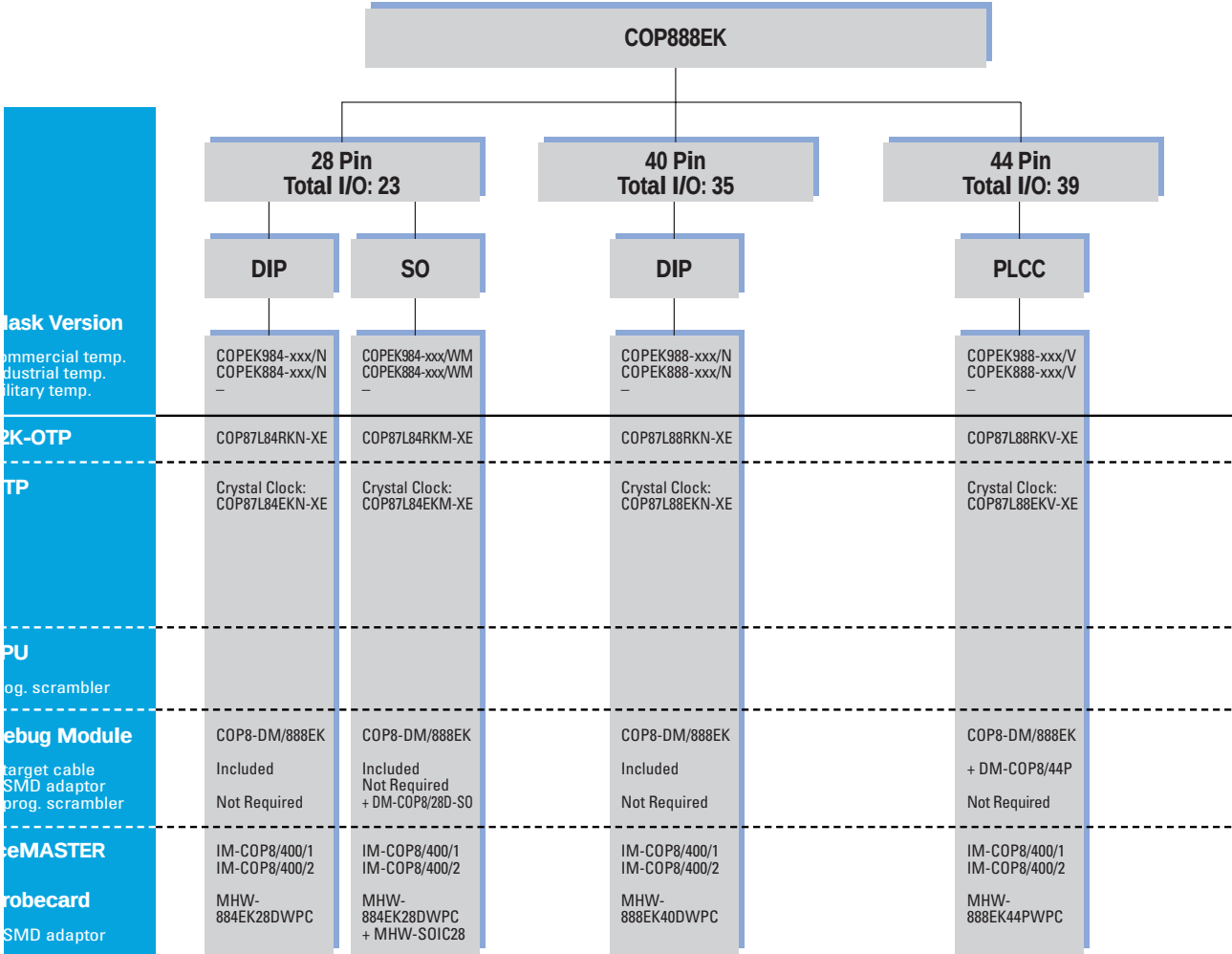
Debug Module

+ target cable
+ SMD adaptor
+ prog. scrambler

iceMASTER

Probecard

+ SMD adaptor



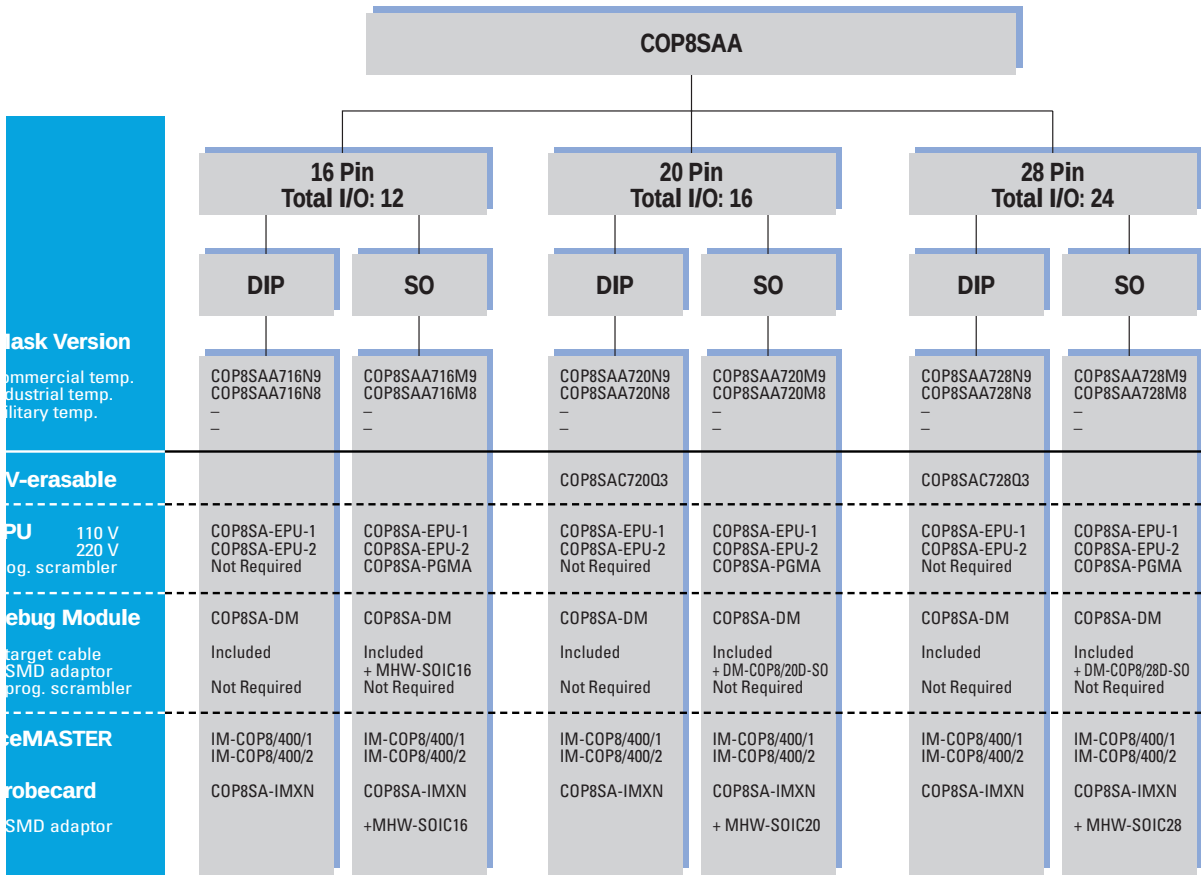
888GW

8ACC

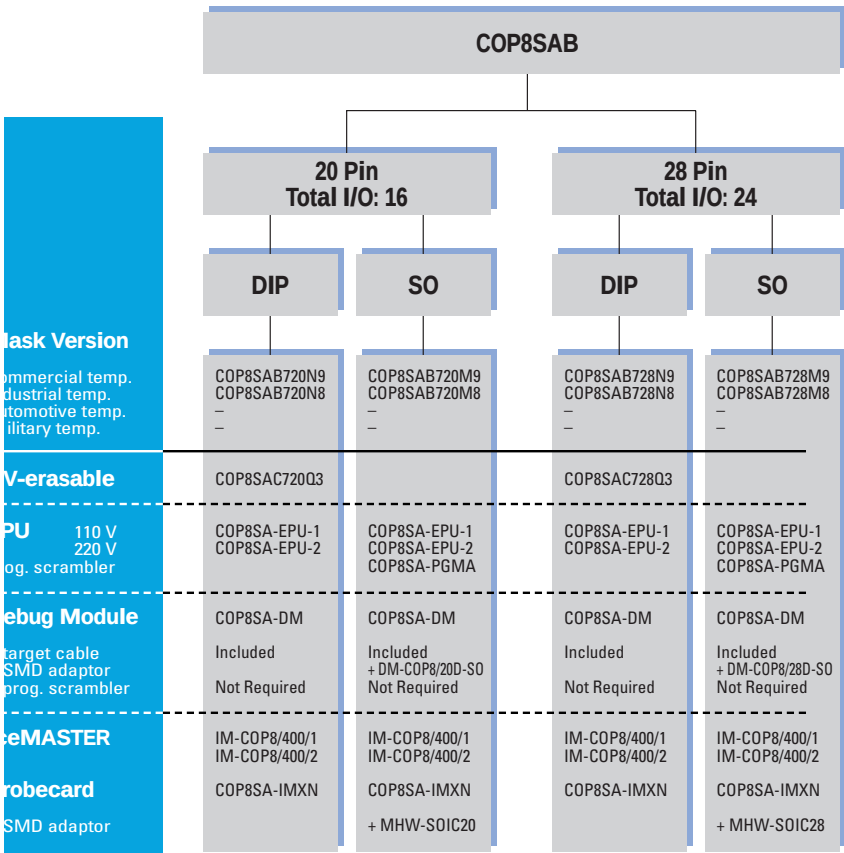
	COP888GW		COP8ACC			
	68 Pin Total I/O: 56		20 Pin Total I/O: 15		28 Pin Total I/O: 23	
	PLCC		SO	DIP	SO	
Mask Version	— COPGW888-xxx/V —		COP8ACC520M9xxx COP8ACC520M8xxx —	COP8ACC528N9xxx COP8ACC528N8xxx —	COP8ACC528M9xxx COP8ACC528M8xxx —	Mask Version
commercial temp. industrial temp. military temp.						commercial temp. industrial temp. military temp.
2K-OTP	COP87L88RWV-XE					OTP
OTP	Crystal Clock: COP87L88RWV-XE		COP8ACC720M9-XE COP8ACC720M9-RE COP8ACC720M8-XE COP8ACC720M8-RE	COP8ACC728M9-XE COP8ACC728M9-RE COP8ACC728M8-XE COP8ACC728M8-RE	COP8ACC728M9-XE COP8ACC728M9-RE COP8ACC728M8-XE COP8ACC728M8-RE	commercial temp. crystal clock RC clock industrial temp. crystal clock RC clock
EPU	N/A		N/A	N/A		EPU
prog. scrambler	N/A					prog. scrambler
Debug Module	COP8-DM/888GW Included Not Required COP8-PGMA-68P		COP8AC-DM Included + DM-COP8/20D-SO EDI Included	COP8AC-DM Included EDI Included	COP8AC-DM EDI Included + DM-COP8/28D-SO EDI Included	Debug Module
+ target cable + SMD adaptor + prog. scrambler						+ target cable + SMD adaptor + prog. scrambler
iceMASTER	IM-COP8/400/1 IM-COP8/400/2 MHW-888GW68PWPC		IM-COP8/400/1 IM-COP8/400/2 COP8AC-IM28/20N +MHW-SOIC20	IM-COP8/400/1 IM-COP8/400/2 COP8AC-IM28/20N	IM-COP8/400/1 IM-COP8/400/2 COP8AC-IM28/20N +MHW-SOIC28	iceMASTER
Probocard						Probocard
+ SMD adaptor						+ SMD adaptor

30

31



COP8 SAB



COP88GD

