



**COP8 PROGRAMMING ADAPTER REFERENCE CHART**  
 (OTP and Flash Programming Adapters for the COP8-PM, DM, EPU and Other third-party programmers)

COP8 Device	Industry Package Type	NSC Package Type	Adapter Used On	Menu Selection	Programming Adapter and Vendor	Resale Price
<b>OTP and EPROM - COP8SAA7, COP8SAB7, COP8SAC7</b>						
COP8Sax7xxM	16/20/28 SOIC	SOIC	DM, PM, Gang-8, Others	COP8Sax7xxN, 16/20/28 DIP	Adapter Vendors Worldwide: Standard 28pin SO 1-1 Connections. National: COP8-PGMA-28SO	\$na \$85
COP8SAC744V	44 PLCC	PLCC	Gang 8*	COP8SAC740N, 40 DIP	National: COP8-PGMA-44GNG (Programs 2 devices per adapter)	\$225
COP8Sax7SLB	28 CSP	Laminate CSP	DM, PM, EPU*, Others	COP8Sax728N, 28 DIP	Hi-Lo/Tribal: CNV-28CSP-COP8Sxx National: COP8-PGMA-28CSP	\$na \$185
COP8SAC7HLQ	44 CSP	LLP	DM, PM, EPU*, Others	COP8Sax728N, 28 DIP	Hi-Lo/Tribal: CNV-44CSP-COP8Sxx National: COP8-PGMA-44CSP	\$na \$250
COP8SAC7VEJ	44 PQFP	LQFP	DM, PM, EPU, Others	COP8SAC740N, 40 DIP	Hi-Lo/Tribal: CNV-Q44-COP8Sxx National: COP8-PGMA-44QFP	\$na \$180
<b>OTP and EPROM - COP8SGE7, COP8SGR7,</b>						
COP8SGx7xxM	20/28 SOIC	SOIC	DM, PM, Gang 8, Others	COP8SGx7xxN, 20/28 DIP	Adapter Vendors Worldwide: Standard 28pin SO 1-1 Connections. National: COP8-PGMA-28SO	\$na \$85
COP8SGx744V	44 PLCC	PLCC	Gang 8*	COP8SGx740N, 40 DIP	National: COP8-PGMA-44GNG (Programs 2 devices per adapter)	\$225
COP8SGx7SLB	28 CSP	Laminate CSP	DM, PM, EPU*, Others	COP8SGx728N, 28 DIP	Hi-Lo/Tribal: CNV-28CSP-COP8Sxx National: COP8-PGMA-28CSP	\$na \$185
COP8SGx7HLQ	44 CSP	LLP	DM, PM, EPU*, Others	COP8SGx728N, 28 DIP	Hi-Lo/Tribal: CNV-44CSP-COP8Sxx National: COP8-PGMA-44CSP	\$na \$250
COP8SGx7VEJ	44 PQFP	LQFP	DM, PM, EPU, Others	COP8SGx740N, 40 DIP	Hi-Lo/Tribal: CNV-Q44-COP8Sxx National: COP8-PGMA-44QFP	\$na \$180
COP8SGx7HVY	44 PQFP	LQFP	DM, PM, EPU, Others	COP8SGx740N, 40 DIP	Hi-Lo/Tribal: CNV-Q44-COP8Sxx National: COP8-PGMA-44QFP	\$na \$180
<b>COP8ACC7</b>						
COP8ACC7	20 DIP/SOIC 28 DIP/SOIC	MDIP/ SOICW	DM,PM*, EPU, Others	COP8ACC7 40 DIP	EDI: 20SO/D+28SO/D-40D-ZALCOP8AC National: COP8-PGMA-ACC	na \$110
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National Semiconductor

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COP8 Device	Industry Package Type	NSC Package Type	Used on	Menu Selection	Programming Adapter and Vendor	Resale Price
<b>FLASH - COP8Ax9, COP8Cxx9, COP8LGE9, COP8Sxx9</b>						
COP8SxR9HLQ COP8Cxx9HLQ	44 CSP	LLP	PM*, Others	COP8SxR9HLQ COP8Cxx9HLQ 28 DIP Adapter	Hi-Lo/Tribal - CNV-44CSF-COP8 FLASH National: COP8-PGMA-44CSF	\$na \$250
COP8SxR9HVA COP8Cxx9HVA	44 PLCC	PLCC	PM*, Others	COP8SxR9HVA COP8Cxx9HVA 28 DIP Adapter	Hi-Lo/Tribal - CNV-44PF1-COP8FLASH National: COP8-PGMA-44PF1	\$tbd \$tbd
COP8SxR9LVA COP8Cxx9LVA	68 PLCC	PLCC	PM*, Others	COP8SxR9LVA COP8Cxx9LVA 28 DIP Adapter	Hi-Lo/Tribal - CNV-68PF1-COP8FLASH National: COP8-PGMA-68PF1	\$tbd \$tbd
COP8SxR9IMT COP8Cxx9IMT COP8LGE9IMT	48 TSSOP	TSSOP	PM*, Others	COP8SxR9IMT COP8Cxx9IMT COP8LGE9IMT 28 DIP Adapter	Hi-Lo/Tribal - CNV-48TF1-COP8FLASH National: COP8-PGMA-48TF1	\$175 \$185
COP8SxR9JMT COP8Cxx9JMT	56 TSSOP	TSSOP	PM*, Others	COP8SxR9JMT COP8Cxx9JMT 28 DIP Adapter	Hi-Lo/Tribal - CNV-56TF1-COP8FLASH National: COP8-PGMA-56TF1	\$tbd \$tbd
COP8Ax9ENA	28 DIP	MDIP	PM*, Others	COP8Ax9ENA 28 DIP Adapter	Hi-Lo/Tribal - CNV-28DF1-COP8FLASH National: COP8-PGMA-28DF1	\$tbd \$tbd
COP8Ax9EMW	28 SOIC	SOIC-W	PM*, Others	COP8Ax9EMW 28 DIP Adapter	Hi-Lo/Tribal - CNV-28SF1-COP8FLASH National: COP8-PGMA-28SF1	\$tbd \$tbd
<b>COP87Lxx</b>						
COP87L20/22 COP87L40/42	20 DIP/SOIC 28 DIP/SOIC	MDIP/ SOICW	PM*, EPU	COP87L2x/4x 40 DIP	National: COP8-PGMA-EPU*	\$199*
COP87L84 COP87L84BC	28 DIP/SOIC	MDIP/ SOICW	PM*, EPU	COP87L84 COP87L84BC 40 DIP	National: COP8-PGMA-EPU*	\$199*
COP87L88xxN	40 DIP	MDIP	PM*, EPU	COP87L88 40 DIP	none needed	
COP87L88xxV	44 PLCC	PLCC	PM*, EPU	COP87L88 40 DIP	National: COP8-PGMA-EPU*	\$199*
COP87L88xxVEJ	44 PQFP	LQFP	DM, PM*, EPU, Others	COP87L88 40DIP	Hi-Lo/Tribal: CNV-Q44-COP8Sxx National: COP8-PGMA-44QFP	\$na \$180
COP87L88EB COP87L89EB	44 PLCC 68 PLCC	PLCC	DM, PM*, EPU, Others	COP87L88 COP87L88EB 40 DIP	EDI: 44PL+68PL-40D-ZAL-COP87L88EB National: COP8-PGMA-L88EB	\$na \$200
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**\*NOTES:**

1. COP8-PGMA-EPU adapter includes 28 DIP, 28 SOIC, 44 PLCC, and 68 PLCC sockets.
2. On EPU Only: COP8-PGMA-xxCSP adapters require a single-wire modification.
3. On PM Only: COP87L and COP8ACC7 OTP adapters require user to add a second 40DIP ZIF socket to the PCB.
4. On PM Only: COP8FLASH Adapters install into the on-board standard 40 DIP ZIF socket.
5. On Gang 8 Programmers Only: COP8-PGMA-44GLV adapters have 2 PLCC sockets on-board. Four adapters are used on a gang-8 programmer.

<b>Adapter Vendor</b>	<b>Home Office*</b>	<b>Electronic Sites</b>	<b>Adapters Supported</b>
<b>Aprilog (EDI Corp.)</b>	*USA: Las Vegas, NV 702-914-2361, fax: 702-914-2362	Aprilog.com	8ACC7; 87L88EB; 28 SOIC to DIP;
<b>HI-LO</b>	*Taiwan: Taipei 886-2-87923301, fax: 886-2-87923285	www.hilosystems.com.tw sales@hilosystems.com.tw	44QFP; 28/44CSP; FLASH; 28SOIC to DIP;
<b>National</b>	*USA: Santa Clara, Ca.	www.national.com/cop8	All
<b>Tribal</b>	*USA: Tribal, Fremont, Ca. 510-623-8859, fax: 510-623-9925	www.tribalmicro.com	44QFP; 28/44CSP; FLASH; 28SOIC to DIP;