

COP87Lxx, COP8Axx7 Family OTP PROGRAMMER SUPPORTUpdated - 01/28/99 (Download the latest version of this document: www.national.com/cop8 at OTP Support)

| Programmer Information | | COP87Lxx | | | | | | COP8Axx7 | Notes (n) below |
|------------------------|------------------------------|----------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|---|
| VENDOR | Programmer | (5) | 20/40 | 22/42 | 84 | 84BC | 88 | ACC7 | All programmers: Note 6 |
| Advantech | Labtool-48 | E | P | P | P | P | P | P(1) | (4) In evaluation |
| American Reliance | Spectrum-48 | E | P | P | P | P | P | P(1) | (4) In evaluation |
| BP Microsystems | 1140/1148 | E | A v3.20 | A v3.20 | A v3.20 | A v3.20 | A v3.20 | P | (2) 32DIP adapters required (EDI). |
| | 1200/1400 | H | A v3.2 | A v3.2 | A v3.2 | A v3.2 | A v3.2 | A | Also supports 32DIP adapters (EDI) |
| | 2100/4100 | M | A v3.2 | A v3.2 | A v3.2 | A v3.2 | A v3.2 | A | Also supports 32DIP adapters (EDI) |
| Data I/O | UNISITE, 2900, 3900 | E | A v5.3 | A v5.3 | A v5.3 | A v5.3 | A v5.3 | A (1) v5.3 | Eng use only: Very slow programming |
| | AUTOSITE | | NO | NO | NO | NO | NO | NO | Very slow programming time. |
| HI-LO | ALL-07/11 | P | A *note | A *note | A *note | A *note | A *note | A *note | (4) Also supports 32DIP adapters (EDI) *note: COP87lx.exe, v3.00B; ACOP8x.exe, v3.00 |
| ICE Technology | GLV-COP gang 8x | G | C v1.15 | A v1.15 | A v1.15 | P | P | C(7) | (4) In final evaluation; Use ICE adapters for SOIC and PLCC |
| Lloyd Research | L9000 + PL850 | G | P | P | P | P | P | P | In development; Use ICE adapters for PLCC. |
| Logical Devices | Chipmaster 6000 | E | P | P | P | P | P | P(1) | (4) In evaluation |
| Metalink | EPU | E | A 3.5 v16 | A 3.5 v16 | A 3.5 v16 | A 3.5 v16 | A 3.5 v16 | A(1) 3.5 v16 | (4) Use COPSA-PGMA adapter for SOIC and PLCC. |
| | DM | E | A 3.6r2 | A 3.6r2 | A 3.6r2 | A 3.6r2 | A 3.6r2 | A(1) 3.6r2 | Supports DIP/SOIC/PLCC without adapter |
| Minato | | E | P | P | P | P | P | P(1) | (4) In evaluation |
| Needhams | EMP-20/30 | P | C 3.71 | C 3.71 | C 3.71 | C 3.71 | C 3.71 | C(1) 3.71 | (4) In final evaluation. |
| SMS | Expert/Optima | H | P vC97 | P vC97 | P vC97 | P vC97 | P vC97 | P vC97 | In evaluation; Requires socket modifications for different packages. |
| | MultiSyte | M | P vC97 | P vC97 | P vC97 | P vC97 | P vC97 | P vC97 | In evaluation; Requires socket modifications for different packages. |
| Stag | Eclipse + EPU48D | P | P 7.1.30 | P 7.1.30 | P 7.1.30 | P 7.1.30 | P 7.1.30 | P(1) 7.1.30 | Supported; Not yet evaluated. |
| System Gen. | TURPRO +COP8 Adapter | P | A 2.31K | A 2.31k | A 2.31K | A 2.31K | A 2.31K | A(1) 2.31K | (2) (3) |
| | Multi-APRO + COP8 Adapter | M | A 2.07E | A 2.07E | A 2.07E | A 2.07E | A 2.07E | A(1) 2.07E | (3) |
| Tribal | Flex 700 /AI-11 | P | A *note | A *note | A *note | A *note | A *note | A *note | (2) (4) *note: COP87lx.exe, v3.00B; ACOP8x.exe, v3.00 |
| Xeltek | Superpro-3 | E | P | P | P | P | P | P(1) | |

A = APPROVED. Passed qualification tests for program and verify (No DC or functional testing)

C = CONDITIONALLY APPROVED. Limitations or conditions apply. Update to Approved version is recommended when available.

P = PENDING. Development in process. CONTACT THE PROGRAMMER VENDOR FOR STATUS INFORMATION.

NOTES:

(1) Use 40DIP EDI adapter for 8ACx devices (pn: 28D(or SO)/40D-Z-COP8LxC). Details on www site.

(2) Supports 32DIP adapters for ALL 87Lxx packages. Specifications on our web site: www.national.com/cop8.

(3) Requires vendor's adapters for all packages including DIP.

(4) Requires adapters for SOIC/PLCC/QFP packages only.

(5) E = Approved for ENGINEERING use only, and is not recommended for production programming.

P = Approved for PRODUCTION programming by hand-insertion.

H = Approved for direct-docking, automated HANDLER environments, in addition to Production, hand-insertion programming.

G = Approved for Parallel GANG production programming, hand insertion.

M = Approved for MULTI-SITE, concurrent production programming, hand insertion or automated insertion

(6) Use EDI adapter for 87L88EB (pn: 44/68PL-40D-ZAL-COP888-EB). Supports 44/68 plcc packages from 87L88 selection.

(7) Requires special adapters for 8ACx7. Details on www site.

The latest version of this document may be obtained from our COP8 Web Site OTP page: www.national.com/cop8Questions or comments? Email to: dave.katra@nsc.com