

## Powered Line Drivers

### Connect-IT 1080 AC-Powered, Universal Synchronous/Asynchronous, Short-Range Modem



## Connect $\rightleftharpoons$ IT

*You can use Patton's Model 1080A in just about any RS-232 UTP or STP application! Made in USA, the Model 1080A AC-Powered, Universal Short Range Modem is the bread and butter of Patton's line of RS-232 short-haul modems.*

### Overview

The Model 1080A AC Powered, Universal Short Range Modem is the bread and butter of our RS-232 short haul line, and it's now tastier than ever! Recent improvements in the Model 1080A include better distances (up to 17 miles [27.4Km] on one or two unconditioned twisted pair), support for higher data rates (up to 57.6 kbps), and the addition of a built-in V.52 BER test pattern generator. Of course, the Model 1080A retains all the features that you have already come to expect: asynchronous or synchronous RS-232 operation, half duplex communication over two wires or a choice of half or full duplex communication over four wires, support for point-to-point or multipoint applications, and fully compliant V.54 test modes (local analog loop and remote digital loop).



Automatic features include equalization, gain control and noise filtering (a separate filter for each data rate is built into a custom VLSI chip). To combat the many nemeses of clear data transmission, the Model 1080A includes surge protection (guards against transients), transformer isolation (eliminates ground looping) and a new anti-streaming timer (stops data streaming).

The Model 1080A packs a lot of convenience into a little box: Front panel LEDs give a clear picture of link status, V.54 tests can be activated remotely or via the front panel, and the unit can be externally configured (no need to open the case). Best of all, the Model 1080A standalone is fully compatible with the Model 1080A rack card and the new self-powered Model 1040 short haul.

### Highlights

#### Model 1080A Rack Card Features V.54 and V.52 Diagnostics

The Model 1080ARC fits in Patton's 2U high rack chassis and 2/4/8 ClusterBoxes™. Just like it's standalone counterpart, the Model 1080ARC generates its own 511 and 511E BER test patterns according to the V.52 standard. Four plug-in rear interface cards are available.

### Features

- Async or Sync Operation
- 4-Wire Half or Full Duplex/2-Wire Half Duplex Only
- RS-232 Data Rates to 57.6 kbps
- Distances over 17 Miles (27.4 Km)
- Point-to-Point or Multipoint
- V.54 and V.52 Test Modes
- Automatic Equalization/Gain Control
- Internal, External or Received Recover Clocking in Sync. Mode
- Custom VLSI Noise Filter Chip
- Transformer Isolation/Surge Protection
- Anti-Streaming Timer
- LED Status Indicators
- Fully Compatible with the Model 1040
- **Made in the USA** — This Patton equipment is designed by Patton engineers and built in our Gaithersburg, Maryland facility. Patton's American-made manufacturing process delivers high-quality networking solutions with reliability you can trust.

# Specifications

**Range:** 17.5 miles @1200 bps, 19 AWG 2-pair wire

**Data Rates:** Sync or Async: 1.2, 1.8, 2.4, 3.6, 4.8, 7.2, 9.6, 14.4, 19.2, 28.8, 38.4, and 57.6 kbps, externally switch selected

**Operation:** Point-to-point or multipoint

**Transmit Mode:** Synchronous or asynchronous, 2-W/half duplex, 4-W/half or full duplex

**Interface:** EIA RS-232, CCITT V.24

**Connectors:** DB-25 female (RS-232), RJ-45 jack and terminal block (RJ-11 optional)

**Diagnostics:** V.54 compliant local analog loopback & remote digital loopback; V.52 compliant 511 and 511E test pattern generator

**LED Indicators:** TD, RD, RTS, DCD, Power, Test

**Carrier:** Constantly ON or Controlled by RTS

**RTS/CTS Delay:** Strap selected: 0.0, 8.5 or 50 mS

**Transmit Clock:** Internal, external or receive recover

**Isolation:** Transformer, 1500V RMS

**Surge Protection:** SAD, 600W power dissipation

**Power Supply:** External transformer, 115V or 230V

**Dimensions:** 4.17W x 1.52H x 5.0L (10.6 x 3.9 x 12.7 cm)

# Ordering

| #                    | Model #     | Description   | Availability         |
|----------------------|-------------|---|----------------------|
| 1                    | 1080A/12    | RS-232 ASYNC/SYNC LINE DRIVER; Internal 12VDC Input | General Availability |
| 2                    | 1080A/24    | RS-232 ASYNC/SYNC LINE DRIVER; Internal 24VDC Input | General Availability |
| 3                    | 1080A/48    | RS-232 ASYNC/SYNC LINE DRIVER; Internal 48VDC Input | General Availability |
| 4                    | 1080A/EUI   | RS-232 ASYNC/SYNC LINE DRIVER; External 100-240 VAC | General Availability |
| <b>+ Accessories</b> |             |   |                      |
| 5                    | 1080ARC11   | ASYNC/SYNC, LINE DRIVER, W/RJ11 REAR ASY            | End of Life-Notice   |
| 6                    | 1080ARC45   | ASYNC/SYNC, LINE DRIVER, W/RJ45 REAR ASY            | End of Life-Notice   |
| 7                    | 1080ARC4511 | ASYNC/SYNC, LINE DRIVER, W/RJ45, RJ11 RC            | End of Life-Notice   |
| 8                    | 1080ARC4545 | ASYNC/SYNC, LINE DRIVER, W/DUAL RJ45, RC            | End of Life-Notice   |

| Item Number   | Item Description                   | Price  |
|---|------------------------------------|--|
| SVC-SmartCare-BH<br>(/support/support.asp)                | Premium Support for Business Hours | Contact us<br>(/howtobuy/) for<br>availability and<br>pricing. |
| SVC-SmartCare-24/7<br>(/support/support.asp)              | Premium Support, 24 x 7 Coverage   | Contact us<br>(/howtobuy/) for<br>availability and<br>pricing. |
| SVC-SmartAssist-BH<br>(/support/support-professional.asp) | Business Hour Support Services     | Contact us<br>(/howtobuy/) for<br>availability and<br>pricing. |
| SVC-SmartAssist-AH<br>(/support/support-professional.asp) | After Hours Support Services       | Contact us<br>(/howtobuy/) for<br>availability and<br>pricing. |
| SVC-ENHWAR1<br>(/support/support-warranty.asp)            | 1 Year Enhanced Warranty           | Contact us<br>(/howtobuy/) for<br>availability and<br>pricing. |
| SVC-ENHWAR2<br>(/support/support-warranty.asp)            | 2 Year Enhanced Warranty           | Contact us<br>(/howtobuy/) for<br>availability and<br>pricing. |
| SVC-ENHWAR3<br>(/support/support-warranty.asp)            | 3 Year Enhanced Warranty           | Contact us<br>(/howtobuy/) for<br>availability and<br>pricing. |

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|--|---|--|
| SVC-ENHWAR4<br>(/support/support-warranty.asp)         | 4 Year Enhanced Warranty  | Contact us<br>(/howtobuy/) for availability and pricing. |
| SVC-ENHWAR5<br>(/support/support-warranty.asp)         | 5 Year Enhanced Warranty  | Contact us<br>(/howtobuy/) for availability and pricing. |
| SVC-EXTWAR2<br>(/support/support-warranty.asp)         | 2 Year Extended Warranty  | Contact us<br>(/howtobuy/) for availability and pricing. |
| SVC-EXTWAR3<br>(/support/support-warranty.asp)         | 3 Year Extended Warranty  | Contact us<br>(/howtobuy/) for availability and pricing. |
| SVC-EXTWAR4<br>(/support/support-warranty.asp)         | 4 Year Extended Warranty  | Contact us<br>(/howtobuy/) for availability and pricing. |
| SVC-EXTWAR5<br>(/support/support-warranty.asp)         | 5 Year Extended Warranty  | Contact us<br>(/howtobuy/) for availability and pricing. |
| SVC-NETENG-HOUR<br>(/support/support-professional.asp) | Network technician hour rate for pre-config services, after hours support, etc. | Contact us<br>(/howtobuy/) for availability and pricing. |

## Related Products

|  |   |
|--|---|
| Model 1000CU2, 1000CU4 & 1000CU8 (/products/product_detail.asp?id=372) | 2, 4, & 8-Slot ClusterBoxes™                          |
| Model 1000R16 (/products/product_detail.asp?id=371)                    | 16-Slot Mini-Rack                                     |
| Model 1001 Telco Rack System (/products/product_detail.asp?id=164)     | High Density 16-Slot Rack System for Universal Access |
| Model 1001MP10 & 1001MP2 (/products/product_detail.asp?id=370)         | 10 and 2-Slot Universal Mounting Panels               |

## Backgrounders

|  |                 |
|--|-----------------|
| FiberPlex Capabilities Guide (/backgrounders/FiberPlex_Capabilities_Statement.pdf) | October 6, 2017 |
|--|-----------------|

## Certifications

|   |                   |
|---|-------------------|
| Declaration of Conformity - Data Communications Devices (/certifications/00109D1-001P.pdf)  | July 16, 2018     |
| Declaration of Conformity - Data Communication Devices: Short Range Modems, Interface Converters, Multiplexer Models (/certifications/02301D1-001H.pdf) | February 12, 2015 |

## Data Sheets

|  |                |
|--|----------------|
| Patton Product Life Cycle Color Codes (/datasheet/Life-Cycle-Availability-Codes.pdf) | April 24, 2015 |
|--|----------------|

## Product & Solution Guides

|  |                   |
|--|-------------------|
| Enterprise Networking Products Guide (/guides/07MENTNET-PG-lo.pdf) | November 10, 2010 |
|--|-------------------|

## User Manuals & Configuration Guides

|   |                  |
|---|------------------|
| BroadSoft Configuration Guide for SmartNode SmartWare<br>(/manuals/BroadSoft_PartnerConfigGuide_Patton_SmartNode.pdf) | December 2, 2013 |
| Model 1080A Manual (/manuals/1080a.pdf)   | July 2, 2012     |

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- > xDSL Products (/xdsl/#products)
- > Routers (/router/#products)
- > Dial-Up Access (/dial-up/#products)

#### Sunset Products

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- > Multiplexers & Sharing Devices (/products/network-connectivity/#12)
- > Fiber Telecom (T1/E1/PRI, Analog and ISDN) (/products/network-connectivity/#28)
- > Pro AV Live and Media Broadcast Fiber Systems (/products/network-connectivity/#29)
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- > Defense/Security Fiber Communications (/products/network-connectivity/#22)
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