Powered Line Drivers

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

Connect⇆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.

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.

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 ClusterBoxesTM. 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.

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

+ **Accessories**

#	Model #	Description	Availability
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 (/support/support.asp)	Premium Support for Business Hours	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartCare-24/7 (/support/support.asp)	Premium Support, 24 x 7 Coverage	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-BH (/support/support-professional.asp)	Business Hour Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-AH (/support/support-professional.asp)	After Hours Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR1 (/support/support-warranty.asp)	1 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
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SVC-ENHWAR3 (/support/support-warranty.asp)	3 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.

SVC-ENHWAR4 (/support/support-warranty.asp)	4 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR5 (/support/support-warranty.asp)	5 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
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SVC-EXTWAR5 (/support/support-warranty.asp)	5 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-NETENG-HOUR (/support/support-professional.asp)	Network technician hour rate for pre-config services, after hours support, etc.	Contact us (/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 (/manuals/BroadSoft_PartnerConfigGuide_Patton_SmartNode.pdf)	December 2, 2013
Model 1080A Manual (/manuals/1080a.pdf)	July 2, 2012

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