

## Powered Line Drivers

ForeFront 1065 Powered, Synchronous & Asynchronous, Industrial, Short-Range Modem



*This legacy product is EOL. For product replacement alternative, please see Patton's Model 1080A ([http://www.patton.com/products/product\\_detail.asp?id=78](http://www.patton.com/products/product_detail.asp?id=78)) or Model 1040 ([http://www.patton.com/products/product\\_detail.asp?id=113](http://www.patton.com/products/product_detail.asp?id=113)).*

### Overview

The Model 1065 Industrial Short Range Modem operates 2-wire (half duplex) or 4-wire (full or half duplex), in synchronous or asynchronous modes, over unconditioned telephone lines, supporting bit rates up to 64.0 kbps. The Model 1065 operates in synchronous mode between the local and remote modems; when connected to an asynchronous RS-232 device, the Model 1065 SRM converts the asynchronous data to synchronous data. The Model 1065 is available in a standalone or rack mount package. The rack mount unit offers redundant AC or DC power supply options that protect against power-related failures, providing fault-tolerant operation. Power is provided to the standalone unit through an internal AC (230 or 120 V) power supply. For centralized data centers, users can cluster up to 14 1065RC modem rack cards in the Model 1001 rack chassis. The Model 1001 rack system includes redundant power supply options that protect against power-related failures, providing fault-tolerant operation.



The Model 1065 has several features to enhance overall performance: equalization, anti-streaming timer, transformer isolation to guard against data loss due to ground potential differences, and Silicon Avalanche Diode surge protection to guard against data line transients. The Model 1065 features V.52 compliant bit error rate pattern tests and two V.54 test modes: local analog loopback and remote digital loopback. The operator at the local end may test both local and remote modems, plus the line, in the digital loopback mode. Both RDL and LAL modes can be controlled by a manual switch or via the V.24/RS-232 interface.

### Features

- Synchronous or asynchronous operation
- Supports data rates up to 64.0 kbps
- Two-wire/half duplex or four-wire/full or half duplex
- V.52 & V.54 test modes
- Equalization
- Anti-streaming timer
- Distances up to 12 miles (19.2 km)
- Point-to-point or multipoint
- Internal, external or received loopback clocking
- 2000 VAC transformer isolation & high speed surge protection
- Internal power supply
- Mono-color LED indicators
- Mounts in Patton's 14-card rack chassis
- **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

**Transmission Format:** Synchronous or asynchronous, 2- wire/half duplex, or 4-wire/full or half duplex

**Interface:** RS-232 (CCITT V.24) connection via DB-25 female; twisted pair connection via RJ-45

**Transmission Line:** 2 or 4-wire UTP, 19 - 26 AWG

**Data Rate:** Model 1065 - Synchronous or asynchronous at 1.2, 1.8, 2.4, 3.6, 4.8, 7.2, 9.6, 14.4, 19.2, 28.8, 38.4, 57.6 and 64 kbps-switch selectable

**Applications:** Point-to-point or multi-point

**Indicators:** Mono-color LED indicators for TD, RD, RTS & DCD; single LED indicators for Power, Test, and Error RTS Anti-stream Timer 12.5 sec., 50 sec., or disabled (switch selectable); tolerance: +50%, -0

**Clocking:** Internal, external or receive recover

**Controls:** Carrier constantly "ON" or "controlled by RTS"; RTS/CTS delay set to no delay, 7 or 53 ms

**Diagnostics:** V.52 compliant bit error rate pattern (511/511E pattern) generator and detector with error injection mode; V.54 compliant-Local Analog Loopback and Remote Digital Loopback, activated by front panel switch or via RS-232 interface

**Transformer Isolation:** 2000 V RMS

**Surge Protection:** Immune to IEC-801-5 Level 2, 1kV

**Temperature:** -10°C to 70°C

**Humidity:** 100% condensing from -10°C to +30°C Absolute humidity from +30°C to +70°C

**Dimensions:** 5.5" (W) X 7.5" (D) X 1.6" (H) (13.9 cm X 19 cm X 4 cm)

**Power Supply:** 157-242 VAC Universal Interface

## Ordering

#	Model #	Description	Availability
1	1065/A/120/K	STANDALONE ASYNC LINE DRIVER	Contact us for Availability
2	1065/A/230/A	STANDALONE ASYNC LINE DRIVER	Contact us for Availability
3	1065E/A/120/K	STANDALONE ASYNC LINE DRIVER	Contact us for Availability
4	1065E/A/230/A	STANDALONE ASYNC LINE DRIVER	Contact us for Availability
5	1065RC/A/B	RACK CARD ASYNC LINE DRIVER DB/25/RJ45	Contact us for Availability
6	1065RCE/A/B	RACK CARD ASYNC LINE DRIVER DB/25/RJ45	Contact us for Availability

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

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-EXTWAR3 (/support/support-warranty.asp)	3 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR4 (/support/support-warranty.asp)	4 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
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 1001 Telco Rack System (/products/product\_detail.asp?id=164) High Density 16-Slot Rack System for Universal Access

## Backgrounders

FiberPlex Capabilities Guide (/backgrounders/FiberPlex\_Capabilities\_Statement.pdf) October 6, 2017

## Certifications

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

## Data Sheets

End of Life Notice - Models 1004A and 1065/1065RC (/datasheet/EOL-Notice-1004\_1065\_201909.pdf) September 11, 2019  
 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

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- > VoIP Appliances (/ip-pbx/#products)
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#### Sunset Products

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- > Multiplexers & Sharing Devices (/products/network-connectivity/#12)
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- > Surge Protectors & Opto-Isolators (/products/network-connectivity/#15)
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- > Interface Converters (/products/network-connectivity/#10)
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