

BB 1080 A

UNIVERSAL ASYNC/SYNC SHORT RANGE MODEM

Spécifications

- RS232 / V24 Interface
- Up to 33 km on 9/10 19AWG copper
- Up to 18.7 km sur 5/10 24AWG
- Asynchronous or Synchronous
- Point to point or Multipoint
- 2W or 4 W
- 57.6K maxi
- Clock setting
 - Internal
 - External
 - line
- Optical isolation or galvanic isolation
- Rack mount or standalone
- 6 LEDs indicators
- Internal Bert Test
- Front panel loopback control
- DIP switch Configuration
- Power 90/230VAC or 48VDC
- SNMP and graphical MIB for rackmount series

The CXR BB1080A AC Powered is a base-band modem using FSK coding. 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 CXR BB1080A includes surge protection (guards against transients), transformer isolation (eliminates ground looping) and a new anti-streaming timer (stops data streaming).

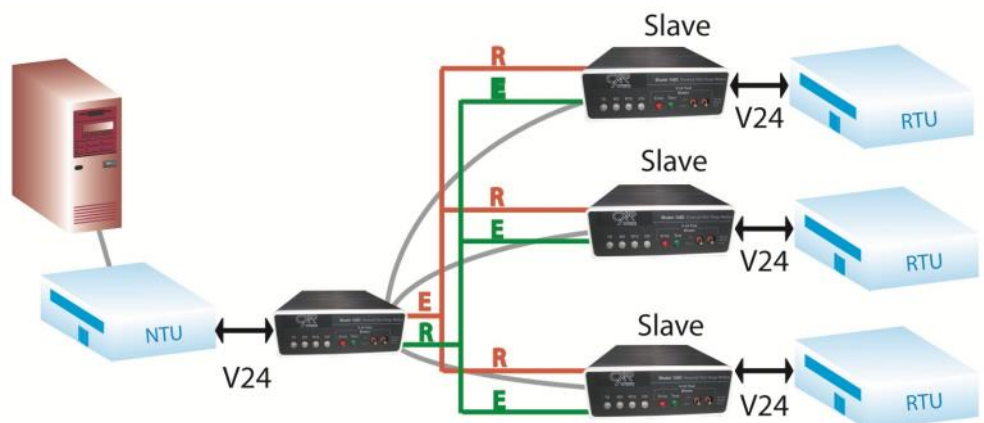


The CXR BB1080A packs a lot of convenience into a little box: Front panel LEDs give a clear picture of link status, V.54 tests can be activated remotely or via the front panel, and the unit can be externally configured (no need to open the case). Best of all, the Model BB1080A standalone is fully compatible with the CXR BB1080A rack card and the new self-powered CXR BB1040 short haul.

BB1080A is dip switch configurable.

MULTIPOINTS APPLICATION

Slave modems are controlled by RTS signal
 Master modems transmit continuously
 On Idle mode, slave modems are in high impedance mode.



Base band modem

FEATURES

General features :

- 4-Wire Half or Full Duplex/2-Wire Half Duplex Only
- Async or Sync Operation
- Rs232 speed :
1.2, 2.4, 3.6, 4.8, 7.2, 9.6, 14.4, 19.2, 28.8, 38.4, 57.6 Kbps
- Internal, External or Received Recover Clocking in Sync. Mode
- Controlled by RTS signal command
- RTS to CTS loop with configurable delay.

Technical features :Circuits

- Circuits : 102, 103, 104, 105, 106, 107, 108, 109, 113, 114, 115, 140, 141, 142
- Electric interface : V24
- Connector : DB25 Female or RJ45.

Led indicators

- TD (103)
- RD (104)
- CD (109)
- TEST (142)
- RTS (105)
- Error



Rear view BB1080A :



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Mécanical features

Standalone : 106 x 39 x 127 mm

Power

- External power adaptor 100-240 Vac / 50-60 Hz
- Optional DC power 24/48V

Power consumption :

BB-1080 A : 5 W

Environment

- Operational Temperature : 0 – 50 °C
- Humidity : 0 à 90% (non-condensing)
- Max humidity , 35 °C : 85%
- Galvanic isolation :1500 Vrms
- Electric Chock : 600 W

Loopback tests

- Local and remote loopback (V54)
- BERT 511 bits (V52) and 511 bits with errors

Certification

- EN 60950 – 1
- UIT-T K20 et K21
- EN 50121-4 , railway environment.

Transmission table :

| Thruput (bps) | 19 AWG (0,9mm) | 22 AWG (0,6mm) | 24 AWG (0,5mm) |
|---------------|----------------|----------------|----------------|
| 57600 | 19,3 km | 11,2 km | 8,5 km |
| 38400 | 20.9 km | 12.1 km | 10.0 km |
| 19200 | 25.8 km | 13.7 km | 11.3 km |
| 9600 | 29.8 km | 20.9 km | 16.7 km |
| 4800 | 31.4 km | 22.5 km | 18.2 km |
| 2400 | 33.0 km | 24.2 km | 18.7 km |
| 1200 | 32.2 km | 24.2 km | 18.4 km |

| 1080A | Spectrum frequency | | |
|--------|--------------------|-------|--------|
| | Débits | F-Low | F-High |
| 57.600 | 14400 | 72000 | Hz |
| 38.400 | 9600 | 48000 | Hz |
| 19.200 | 4800 | 24000 | Hz |
| 9.600 | 2400 | 12000 | Hz |
| 4.800 | 1200 | 6000 | Hz |
| 2.400 | 600 | 3000 | Hz |
| 1200 | 300 | 1500 | Hz |

Order number

| | |
|-----------------------|--|
| BB-1080A-230F | Standalone BdB Asyn/sync 2W/4W 57.6K DTE: DB25F Ligne: RJ45 , 230VAC |
| BB-1080A-48F | Standalone BdB Asyn/sync 2W/4W 57.6K DTE: DB25F Ligne: RJ45 , 48VDC |
| BB-1080-SBMF | Hardened base band modem for Railway: asynchronous/synchronous up to 64kb/s, 2 and 4 wires, 2kV isolation, 48VDC |
| BB-1080-SBRF | Rack card hardened base band modem for Railway: asynchronous/synchronous up to 64kb/s, 2 and 4 wires, 2kV isolation |
| 1001R16E-230F | 19"Chassis , 2U, 16 slots for 1080-SBRF , 1092, 1095, 1 power supply 230 VAC |
| PS-1001RUG-230 | Power supply 230v, ruggeded , high protection , for 1001R16E |