

AM2048

2.048Mbps xDSL Broadband Modem



● ● Features

- Data Rates 64kbps to 2Mbps
- G.SHDSL - TC-PAM Line Code
- Range of Modular Interfaces
- Integrated Bridge/Router Interface Option
- Data Transmission on 1 or 2 Copper Pairs
- Delivery of 2Mbps Data on 1Pair
- Rate Adaption - Auto Line Rate Adjustments
- Rackmount Option
- Front Panel Button & Remote Management Options
- Local & Remote Test Loops
- SNMP Management Options via Rackmount Units
- Point to Multi-Point Operation
- M.2100 Performance Monitoring

● ● Overview

The modern transmission technologies embodied within ATL Telecom's AM2048 provide your business or customers with quality, reliable data communications. LANs can be interconnected over UTP cables or leased lines at distances of up to 8km on 0.5mm cables. The AM2048 with e-PIM fitted enables you to interconnect LANs without the need for separate routers or bridges. Using AM2048 with G.703 modules, a corporate PBX can be linked to a remote office PBX, or mobile base station traffic can be back-hauled over DSL.

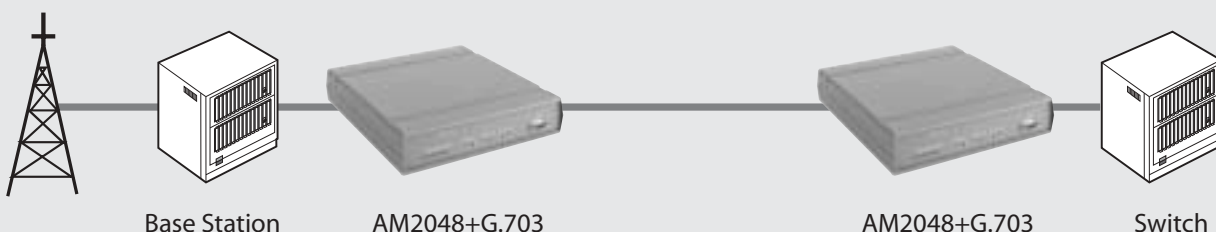
Enhancements to the AM2048 bring substantial benefits to the user, including SHDSL line coding, integrated mains powering, improved front panel programming and status indicators, and front panel terminal port access. IP connectivity is enabled via the e-PIM, a combined Ethernet 10BaseT and USB interface. The modules

powerful built-in bridging and routing features enable a cost effective solution for interconnecting LANs and providing access from LANs to the Internet.

AM2048 delivers framed & unframed E1, fractional E1 & Nx64kbps services. In point to multi-point mode Nx64k services can be delivered to two remote sites from one Central Office modem.

Both its VT100 and SNMP management options are user friendly. Integral diagnostic and alarm reporting features avoid the need for extra test equipment for commissioning. Rate adaption, line fault sensing for prioritised timeslot switching and line degradation performance monitoring, enable operators to improve QoS and minimise downtime. Remote powering of standalones from the AM2048 Rack is a further option.

Example Application - Mobile Network Base Station Backhaul



Remote base station & mobile switch connected over a DSL single span of copper twisted pair.

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Specifications

User Data Rates	64kbps to 2.048Mbps in 64kbps steps
Line Rates - bps	256kbps to 2.048Mbps in 64kbps steps
Transmission Line code	TC-PAM; Full Duplex
Interfaces & Connectors	V.35 - 34way MRAC; Ethernet 10BaseT - RJ45; USB - Slave; X.21 - 15 way D; G.703 - 75Ω - BNC, 120Ω - RJ45 DSL Line - RJ45; Terminal Port - 9 way D
Line Requirements	1 or 2 unconditioned twisted pairs (e.g.EPS8/9)
Operating Range	Examples at Transmit Power +13.5dBm: 512kbps - 7.8km on 0.5mm; 6.2km on 0.4mm 2Mbps - 5.3km on 0.5mm; 4.4km on 0.4mm
Timing/Clocking	Internal, External or Transparent
Test Loops	X.150, Local-3c, Loopback-2b, V.54, Remote loop
Diagnostics	Self Test, Data Tests with PRBS511
Power Supply	Standalone: 230V AC or -48V DC. Rack: 230V AC or -48V DC
Power	Fully Loaded 2-pair system : 7.5W
Environmental	Temp: -10°C to + 45°C; Humidity: Max. 90% non-condensing
Dimensions	Standalone: 55 x 250 x 270mm. Card: 30 x 248 x 262mm
LED's	Power, Alarms, Test Mode, Loops, Line1 & 2, Status, User Port
Modem Configuration	Via Front panel buttons
Advanced Modem Configuration	Via Terminal port or Rack NE; VT100 or SNMP

Ordering: AM2048A (AC Standalone). Options: 48V (DC Power); V.35, X.21, G.703, e-PIM (Interface).
AM2048-Rack - (19" Rack for 12 modems); Options: AC, DC (Power); SNMP;
AM2048B - (Rackmount Card for AM2048-Rack). Options: V.35, X.21, G.703, e-PIM (Interface).

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