

AM2048O

2.048Mbps Fibre Optic Broadband Modem



● ● Features

- Data Rates 64kbps to 2Mbps
- Range of Modular Interfaces
- Integrated Bridge/Router Interface Option
- Bidirectional Transmission over 1 (one) single mode or multimode optical fibre
- Front Panel Button & Remote Management Options
- Local & Remote Test Loops
- M.2100 Performance Monitoring
- Stand Alone and Rackmount Version
- SNMP Management Options via Rackmount Units

● ● 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 single mode or multimode cables at distances of up to 60km. The AM2048O with e-PIM fitted enables you to interconnect LANs without the need for separate routers or bridges. Using AM2048O 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.

Fibre transmission modems bring numerous benefits to data communications, including improved range and performance, higher link security and reliability, immunity from noise and electrical interference, and electrical isolation between ends.

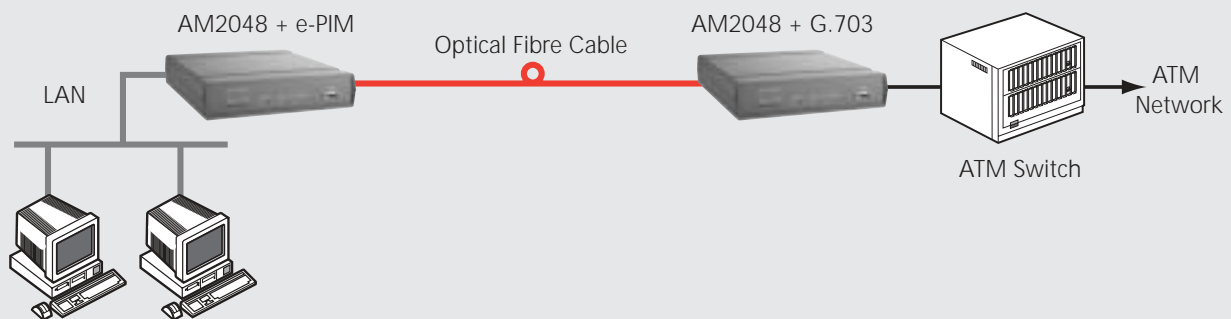
As part of the AM2048 family, AM2048O shares interface modules common to the AM2048 xDSL range, to provide cost saving solutions for numerous

applications. Further savings on fibre optic cable usage by the use of full duplex single fibre transmission at 2Mbps. Versions are available for both single mode and multimode fibre types.

The AM2048O delivers framed & unframed E1, fractional E1 & Nx64kbps services. Protocol conversion (e.g. G.703 at the CO and V.35 at the CPE) is handled automatically. Fibre transmission extends the range beyond that of xDSL systems, providing transmission ranges of up to 15km on multimode and 60km on single mode cables. High density applications at the CO are provided using AM2048 Racks, which can accommodate xDSL and optical modems in the same racks for multiple transmission media solutions.

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.

Example Application - LAN Interconnection over Fibre



Central Office and Remote Office connected by single optical fibre cable link and ATM Network

AM20480

2.048Mbps Fibre Optic Broadband Modem

Specifications

User Data Rates	64kbps to 2.048Mbps in 64kbps steps
Transmission Wavelength	1300nm
Interfaces & Connectors	V.35 - 34-way MRAC; Ethernet 10BaseT - RJ45; USB - Slave; X.21 - 15-way D; G.703 75Ω - BNC, 120Ω - RJ45; Fibre - FC, SC or ST
Line Requirements	1 optical fibre - single mode or multi mode
Operating Range	Typical examples at optical power budget +25dB 60km on single mode optical fibre 15km on multi mode optical fibre
Timing/Clocking	Internal, External or Transparent
Test Loops	X.150, Local-3c, Loopback-2b, V.54, Remote
Diagnostics	Self Test, Data Tests with PRBS511
Power Supply	Standalone: 110V/230V AC or -48V DC. Rack: 230V AC or -48V DC
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 Indicators	Power, Alarms (Urgent/Non-Urgent), Test Mode, Loops, Master
Basic Configuration	Via Front panel buttons: Master/Slave, Test Loops
Advanced Modem Configuration	Via Terminal Port or Rack NE; VT100 or SNMP

Ordering: AM20480A (AC Standalone). Options: MM/SM (Fibre); 48V (DC Power); V.35,X.21,G.703,e-PIM (Interface); FC, ST, SC (Fibre Connections).
AM2048-Rack - (19" Rack for 12 modems); Options: AC, DC (Power); SNMP (SNMP Enabled Rack)
AM2048OB - (Rackmount Card for AM2048-Rack). Options: V.35, X.21, G.703, e-PIM (Interface).

ATL Telecom Limited

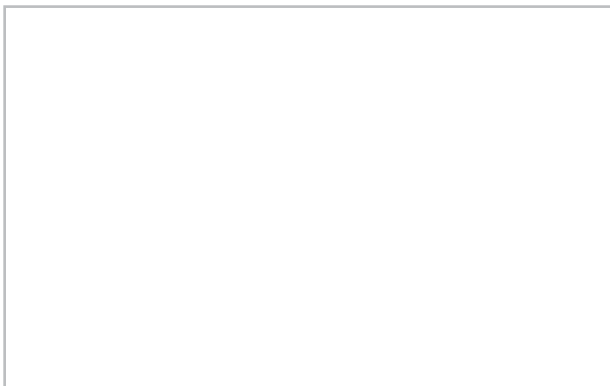
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FM 13448
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