TGA1012

PRI MONITORING ALARM SIGNALLING SYSTEM

Modular system
1 access per module, 12 modules per Rack, and up to 6 Racks per system

PRI E1/G.704 monitoring test set
Continuous local and remote alarms signalling

Flexible management
E1 streams monitoring by remote side

OVERVIEW

The Aethra® modular system TGA1012 for alarm signalling over E1/G.704 lines, is the best solution for continuous monitoring aimed to carriers, call center, ISPs, public offices and those who need constant monitoring of their lines. The system is modular as the basic unit may be equipped with a variable number of interface modules in order to manage up to a maximum of 12 primary lines. Moreover, these units may be connected in cascade through RS485 serial port, up to a maximum of 6 units for a total number of 72 lines.
In addition to the alarms signalling feature, TGA1012 allows the conversion between interfaces 120 Ohm - 75 Ohm and vice versa, both Network side and Terminal side without any extra piece of hardware.

By using external devices, e.g. the D2000PRO, it is possible to be connected to one of the access under control and carry out tests over the line both toward the network and toward the terminal, as well as performing a monitor test in high impedance.

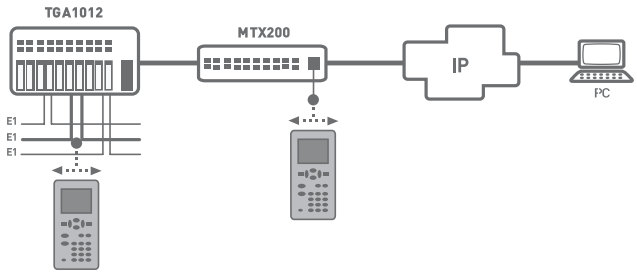
Besides, the optional remote management software, will allow you to control the status of the lines connected to TGA1012, reproducing the device accurately on the screen of your PC.

The optional matrix MTX200, will improve the system management allowing remote automatic access switching, in order to monitor and test the problematic lines using just one external test equipment.

FEATURES AT A GLANCE

- ☐ Exhaustive tests over the disturbed access by using an external device like D2000PRO
- ☐ E1 frame allarm signalling
- ☐ Modular system, up to 72 PRI access under constant monitoring
- ☐ Integrated impedance adaptation 75 - 120 Ohm
- ☐ Optional remote management by PC
- ☐ Optional matrix for automatic switching to increase the system management power
- ☐ Technician's time optimization and money saving

OPERATING MODES



TECHNICAL SPECIFICATIONS

TELECOM INTERFACES

• Primary Rate Access E1	ITU-T (CCITT) Rec.I.431, G.704 ETS 300 011

PROTOCOLS SUPPORTED

• Simulation and monitor*	EDSS-1, Q.SIG, 1TR6, TN1R6®, VN4, X.25, X.31, DASS-2, DPNSS, CorNet®-N, -NX, -NQ, -T, PPP, IP, UDP,
Other protocols available by PC	V.5.1, V.5.2, NI1, DMS100, 5ESS

* Simulation and monitor features are available with the ISDN Tester and Analyzer D2000PRO

CONNECTORS

• Primary access interface	
120 Ohm	RJ45 (ISO 8877)
75 Ohm	Microcoax 1.0/2.3
Measuring point	N2 8wires
Remote control port	RJ9, RS485
TGA box port	DB9

ENVIRONMENTAL CHARACTERISTICS

• Dimension	N3 19" standard rack
Weight, with 12 modules	≈9 kg
Single module	≈180 gr
Dimensions (mm)	260 (w) x 440 (l) x 190 (d)
• Power	
External AC/DC adapter	230Vac ±10% @ 50/60 Hz

TEMPERATURE

• Storage/Transport	- 25°C to +55°C
• Operating,nominal	- 0°C to +45°C
• Operating, limits	- 5°C to +50°C
• Humidity, non-condensing	≤ 93% RH @ 40°C ≤ 70% RH @ 50°C

REFERENCE REGULATION

• EMC aspects	CEI EN 55022, CEI EN 55022 CEI EN 50082-1
• User's Safety Aspects	CEI EN 60950
• CE Marking	Class B (residential devices)

ALARMS AND ERROR DETECTED

• Alarms from TE and from NT	LOS, LFA, AIS, RAI
• Errors from NT	AIS64K, CRC ER

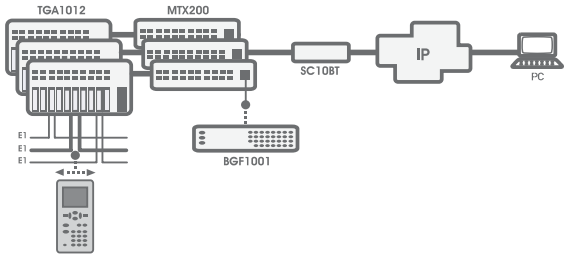
MISCELLANEOUS

• Module mode	Loop to NT, Idle, Active mode
• LED Test	

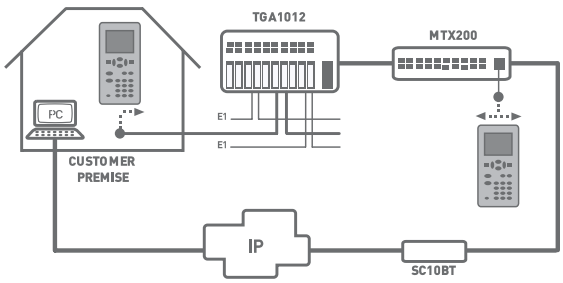
OPTIONS

• MTX200	Automatic E1 access switching matrix
• PC108 for Windows™	Software for remote management
• TGA box	External box with audible and visible warning
• SC10BT-2K	External adapter to control the system through 10/100BT LAN port

OPERATING MODES



END-TO-END TESTING



Aethra SpA
Telecommunications
via Matteo Ricci 10
60020 Ancona - Italy
Telephone +39.071.218981
Fax +39.071.887077
Video 1 +39.071.2189160
Video 2 +39.071.2189701
Email: info.aethra@aethra.com
www.aethra.com

Aethra, Inc.
701 Brickell Avenue
Suite 1390
Miami, FL 33131 USA
Telephone +1.305.375.0010
Toll Free (US only) 1.888.4.AETHRA
Fax +1.305.375.0655
Video +1.305.577.3524
Email: info.na@aethra.com

Aethra, the Aethra logo and TGA1012 are trademarks, registered trademarks, or service marks of Aethra SpA Telecommunications in Italy, the United States, and/or other countries. All other company and product names may be registered trademarks or trademarks of their respective owners. Information furnished by Aethra SpA Telecommunications and Aethra, Inc. in this datasheet is believed to be accurate. Products sold and licensed by Aethra SpA Telecommunications and Aethra, Inc. are covered by warranty and patent indemnification provisions appearing in its purchase and license agreements. Aethra SpA Telecommunications and Aethra, Inc. reserve the right to discontinue production and change specifications and prices at any time without notice. Copyright ©2004 Aethra SpA Telecommunications - All rights reserved. Additional regional offices are located on our website: *www.aethrausa.com.* For further details about technical specifications please see "Products" on *www.aethra.com*

Code 071072004GB Rev.0 (02/04)