

Ether.Genius software release notes

1. Software 2.26.X

Date	04/04/2024
Software version	2.26.1
Firmware versions	GbE-027B / E1-58D6

The most important bug corrections included in this software / firmware release are listed below:

#	Description	Remarks
1	Miscellaneous improvements and bug fixes in the graphical user interface.	-

2. Software 2.24.X

Date	22/11/2023
Software version	2.24.2
Firmware versions	GbE-027B / E1-58D6

Improvements included in this software / firmware release are listed in the following table:

#	Description	Remarks
1	New average total TE statistic for PTP, equivalent to cTE metric defined in ITU-T standards.	• Requires "IEEE 1588v2 Wander Test" software option.
2	New implementation for the Delay / PDV statistics panel with a simpler representations of all metrics related with latency in PTP applications.	• Requires "IEEE 1588v2 Emulation" software option.
3	Support for jamming detection in GNSS references.	• Requires references board.
4	Adds controls for minimum C/N0 and minimum elevation for the GNSS receiver	• Requires references board.
5	Improved support of 1PPS references which is now supported in all PTP and delay tests for TDM interfaces.	
6	The event logger has been modified to add more events (C37.94 events). Some other events have been moved to a different location to increase their availability (clock reference events).	
7	New unified system menu to enable or disable services. This service allows to improve security by disabling unnecessary services.	
8	The system stability is improved when a long sequence of configuration files is loaded to the unit.	
9	Implements the latest MIB library including the new RFC 2544 MIB and Ethernet link status reports.	

3. Software 2.22.X

Date	28/07/2022
Software version	2.22.2
Firmware versions	GbE-027B / E1-58D6

Improvements included in this software / firmware release are listed in the following table:

#	Description	Remarks
1	Includes new local one-way delay test in E1 and T1 modes to enable measurement of forward and backward latency with a single unit and without the need for an external clock reference.	<ul style="list-style-type: none"> Requires at least one of the E1 or T1 testing options, the one-way delay and secondary E1 / T1 port options.
2	es support for forwardable and non-forwardable destination addresses in multicast PTP modes with Ethernet payloads	<ul style="list-style-type: none"> Requires software options related with PTP clock emulation.
3	Adds the settings required to configure PTP clock accuracy and clock variance when the unit is configured as a grandmaster or an ordinary clock.	<ul style="list-style-type: none"> Requires software options related with PTP clock emulation.
4	Improves interoperability of NMEA clock references received from third party devices	<ul style="list-style-type: none"> Requires a unit equipped with a clock references board.
5	Units in Ethernet and IP bandwidth statistics are now user configurable: b/s, kb/s and Mb/s.	
6	Support transmission speeds up to 10 Mb/s in synchronous data communications interfaces: X.21 / V.11, V.35, V.36 (RS449), EIA-530, EIA-530A	<ul style="list-style-type: none"> Requires the E1 or T1 test together with the Datacom test licenses to be unlocked.
7	More accurate terminology for data communications frequency results. Now the unit displays the clock circuit where the frequency was measured	<ul style="list-style-type: none"> Requires the E1 or T1 test together with the Datacom test licenses to be unlocked.
8	More attractive and advanced format for PDF reports. Support for MTIE and TDEV charts and tables in reports.	
9	Graphical export of charts generated from the Event logger function in PDF format.	
10	Adds compatibility with the latest ATSL SNMP MIB library (atsl-mibs-2022-07).	
11	Adds compatibility with CWDM SFP modules.	

4. Software 2.18.X

Date	11/02/2020
Software version	2.18.1
Firmware versions	XGbE-005C / E1-4D6E

Improvements included in this software / firmware release are listed in the following table:

#	Description	Remarks
1	Miscellaneous improvements in the RFC 2544 test: Flexible throughput configuration in the latency test, statistic to be displayed in latency results (average, maximum, minimum).	
2	New results in the "Network layer statistics" panel: IP fragments and TCP packets.	
3	IEEE 1588v2 / PTP filter to select and classify PTP flows by Domain, Port Identity and Message Type (<i>Sync, Delay Request, Delay Response, Peer Delay Request, Peer Delay Response, Follow up, Peer Delay Follow up, Announce, Signaling, Management</i>) when the selected protocol is IEEE-1588.	<ul style="list-style-type: none"> Requires the <i>IEEE 1588v2 Emulation</i> software option

#	Description	Remarks
3	Improvements in the fixed offset filter that now enables users to configure eight fully independent filters per port.	
4	"Port B" is now one of the predefined destinations in network and frame menus corresponding to the Port A traffic generator.	
5	The PTP "Hybrid" addressing mode is added to the existing "Unicast" and "Multicast" modes. The unicast negotiation could be enabled or disabled in this new hybrid mode.	<ul style="list-style-type: none"> Requires the <i>IEEE 1588v2 Emulation</i> software option
6	The mask selection menu in MTIE / TDEV tests has been improved. Latest masks from the standards are now available including the ePRC, ePRTC, PRTC-B and BC Class C masks.	<ul style="list-style-type: none"> Requires any of the MTIE / TDEV measurement software options to be installed in the equipment.
	Improved menu structure for clock reference inputs and outputs.	
7	Miscellaneous improvements in the E1 and T1 menu structure: A "Match RX" has been added to many transmitter settings to enable coupling with the receiver. The "Tributary interface" now enables more simple configuration of E1 / T1 add / drop and mux / demux modes.	<ul style="list-style-type: none"> Requires that either the <i>E1 Tester</i> or the <i>T1 Tester</i> is installed in the unit.
8	New loopback and pass-through modes for E1 / T1 and C37.94. The new pass-through mode now enables forwarding between transmission ports.	<ul style="list-style-type: none"> The E1 / T1 loopback mode requires that either the <i>E1 Tester</i> or the <i>T1 Tester</i> is installed in the unit. The E1 / T1 has the additional requirement that the <i>Secondary E1/T1 port</i> software option is installed. The C37.94 loopback and pass-through modes requires that the <i>C37.94 internal SFP</i> software option is enabled.
9	Asynchronous mode for the datacom X.21 / V.11 / RS422 interface.	<ul style="list-style-type: none"> Requires the <i>Datacom</i> software option to be enabled in the unit
10	Data-to-clock phase controls for datacom synchronous interfaces.	<ul style="list-style-type: none"> Requires the <i>Datacom</i> software option to be enabled in the unit
11	Performance objectives with Pass / Fail results are now available for latency tests in E1, T1, datacom, co-directional, IEEE C37.94 and VF interfaces.	<ul style="list-style-type: none"> Requires that the software option corresponding to interface where the latency test is going to run to be enabled in the unit
12	Duty cycle measurement in PPS clocks in clock monitor mode.	<ul style="list-style-type: none"> Requires the <i>Clock monitor</i> software option to be installed in the unit.
14	Improved VF test that now has a more optimized menu structure and includes new noise and a frequency sweep tests.	
15	Adds support for a new version of the file manager with improved disk quota management.	
16	Adds compatibility with the latest ATSL SNMP MIB library (atsl-mibs-2019-12).	<ul style="list-style-type: none"> Requires the <i>SNMP</i> software option