



ALBEDO Ether.Genius is a hybrid TDM and Ethernet / IP generator and analyser. It comes with optional synchronization (jitter and wander) testing capabilities. Ether.Genius is suitable for testing in environments where packet switching has not totally replaced legacy circuit switching technology, like in some cellular networks.

Market Analysis

Ether.Genius - SyncE / IEEE 1588

	ALBEDO Ether.Genius	VeEX VePAL TX130M+	JDSU MTS 5800	Bluelight BL6800B	FTB-860 NetBlazer
SyncE operation modes	<ul style="list-style-type: none"> • SyncE master emulation • SyncE slave emulation • SyncE pass-through 	<ul style="list-style-type: none"> • SyncE master emulation • SyncE slave emulation 	<ul style="list-style-type: none"> • SyncE master emulation • SyncE slave emulation 	<ul style="list-style-type: none"> • SyncE master emulation • SyncE slave emulation 	<ul style="list-style-type: none"> • SyncE master emulation • SyncE slave emulation
Offset generation	• Yes	• No	• Yes	• Yes	• Yes
Wander generation	• Yes	• No	• No	• No	• No
Frequency offset & drift	• Yes	• Frequency offset only	• Frequency offset only	• Frequency offset only	• Yes
MTIE	• Yes	• Yes	• No	• No	• No
TDEV	• Yes	• No	• No	• No	• No
ESMC generat/analysis	• Yes	• Yes	• Yes	• Yes	• Yes
Internal clock	<ul style="list-style-type: none"> • ±3.0 ppm • Optional ±0.1 ppm 	• ±3.5 ppm	• ?	• ?	• ?
External reference input	• Yes (1.5, 2, 10 MHz, 1.5, 2 Mb/s, 1 pps)	• Yes (1.544, 2.048, 10, 25, 125 MHz, 1.544, 2048 Mb/s, 1 pps)	• Yes	• Yes (1.5, 2, 34 and 45 Mb/s, 1 pps)	• Yes
Clock outputs	• Yes (1 pps, 2048 kb/s, 2048 MHz)	• Yes (1.544, 2.048, 10, 25, 125 MHz, 1.544, 2.048 Mb/s)	• No	• No	•
IEEE 1588 modes	<ul style="list-style-type: none"> • PTP master emulation • PTP slave emulation • PTP passive monitoring 	<ul style="list-style-type: none"> • PTP master emulation • PTP slave emulation 	<ul style="list-style-type: none"> • PTP master emulation • PTP slave emulation 	<ul style="list-style-type: none"> • PTP master emulation • PTP slave emulation 	<ul style="list-style-type: none"> • PTP master emulation • PTP slave emulation
IEEE 1588 formats	• Ethernet, IPv4/UDP	• Ethernet, IPv4/UDP	• Ethernet, IPv4/UDP	• ?	• Ethernet, IPv4/UDP
PDV analysis	• Yes (Sync PDV, Sync PTD, Delay Req PTD, RTD, Sync IPG).	• Yes (Sync PDV, Delay Req PDV, RTD, Sync IPG).	• Yes (Sync PDV, Delay Req PDV, RTD)	• Yes	• Yes
Packet MTIE	• Yes (ITU-T G.8260 pkt filtered TIE, ITU-T G.8260 pkt filtered MTIE).	• Yes (TIE and MTIE).	• No	• No	• No
Packet TDEV	• Yes (ITU-T G.8260 pkt filtered TDEV).	• No	• No	• No	• No
2048 kb/s Jitter test	• Yes (generation and analysis)	• Yes (analysis only)	• No	• No	• No
2048 kb/s Wander test	• Yes (generation and analysis)	• Yes (TIE / MTIE analysis only)	• No	• No	• No

CONFIDENTIAL