








ALBEDO AT-2048 is the ultimate E1 tester designed in for field engineers that are installing, commissioning and troubleshooting voice / data E1 links, Synchronization Networks, Jitter/Wander, nx64 services, Datacom and Frame Relay circuits.

Market Analysis

Updated on 1/10/15

AT-2048 Datacom and E1 tester

	ALBEDO AT-2048	VeEX TX150/E+	DADI BER-1530	Sunrise (VEEX) Sunlite E1	JDSU (VIAVI) Smartclass E1
				DISCONTINUED 	DISCONTINUED 
Platform	<ul style="list-style-type: none"> • 210 x 110 x 60 mm • 1,0 kg • 2xUSB, RJ45, SD • Results txt, pdf • WiFi 	<ul style="list-style-type: none"> • 210x100x55mm • 1,0 kg • 2xUSB, RJ45 • Results txt • WiFi 	<ul style="list-style-type: none"> • 150 x 100 x 50mm • Weight: 0.65 kg • RS-232 • Ethernet 	<ul style="list-style-type: none"> • 175x75x35mm • Weight: 0.5 kg • No USB 	<ul style="list-style-type: none"> • 230x120x50mm • 1.0 kg • USB • Results xls/ txt/pdf
Batteries	<ul style="list-style-type: none"> Lipo • 24 h (2 packs) • 12 h (1 pack) NiMH • 5 h (1 pack) • 10 h (2 packs) 	<ul style="list-style-type: none"> Li Ion • 3 h 	<ul style="list-style-type: none"> Li Ion • 8 h 	<ul style="list-style-type: none"> • NimH AA • 4h (<u>if transmitter is off !!</u>) 	<ul style="list-style-type: none"> • NiMH • 2-5 h
VNC Remote Control	• Identical GUI by VNC- IP	No, proprietary ReVeal	No	No	• No, command line only
GUI	<ul style="list-style-type: none"> • 480 x 272 pix • Full Color • Touch-screen 	<ul style="list-style-type: none"> • 320 x 240 pix • Full Color • Touch-screen 	<ul style="list-style-type: none"> • Color TFT LCD • 320 x 240 pixels 	<ul style="list-style-type: none"> • 122x32 pix • Black/White 	<ul style="list-style-type: none"> • 320 x 240 pix • Black/White
Test Ports	<ul style="list-style-type: none"> Double Port • 2 balanced • 2 unbalanced (2xTX, 2xRX) • Input sensitivity -45 dB 	<ul style="list-style-type: none"> Double Port • 2 balanced • 1 unbalanced (1xTX, 2xRX) 	<ul style="list-style-type: none"> • 1 balanced • 1 unbalanced (2xTX, 2xRX) 	<ul style="list-style-type: none"> Single Port • 1 unbalanced or balanced (Optional) 	<ul style="list-style-type: none"> Double Port • 2 balanced (1xTX, 2xRX)
BER test	<ul style="list-style-type: none"> • G.821 • G.826 • M.2100 	<ul style="list-style-type: none"> • G.821, G.826 • G.828, G.829 • M.2100, M.2101 	<ul style="list-style-type: none"> G.821 G.826 M.2100 	<ul style="list-style-type: none"> • G.821 • G.826 • M.2100 	<ul style="list-style-type: none"> • G.821 • G.826 • M.2100
VF Testing	<ul style="list-style-type: none"> • Level and frequency test • Drop & insert tone • Drop & insert voice • Stereo to PCM Adapter 	<ul style="list-style-type: none"> • Level and frequency test • Drop & insert tone • Drop & insert voice 	<ul style="list-style-type: none"> • Level and frequency test • Drop & insert voice 	<ul style="list-style-type: none"> • Level and frequency test • Drop & insert tone • Drop & insert voice 	<ul style="list-style-type: none"> • Level and frequency test • Drop & insert tone
APS	No	Yes	Yes	-	-
PDH/SDH	No	Yes		-	-
Clock	Internal Recovered External	Internal Recovered External (SAMA)		-	Internal Recovered External (SAMA)
Add/Drop nx64	Yes	No	No	No	No
Pulse Shape	Yes	Yes	No	No	Yes
Signalling	• CAS	<ul style="list-style-type: none"> • CAS • ISDN PRI 		• CAS	<ul style="list-style-type: none"> • CAS • MFC/R2

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	ALBEDO AT-2048	VeEX TX150/E+	DADI BER-1530	Sunrise (VEEX) Sunlite E1	JDSU (VIAVI) Smartclass E1
Datacom	<ul style="list-style-type: none"> V.24/V.28 X.21/V.11 V.35 V.36 EIA-530 Drop/Insert datacom in E1 	No	<ul style="list-style-type: none"> V.24/V.28 X.21/V.11 V.35 V.36 EIA-530 	No	<ul style="list-style-type: none"> V.24/V.28 X.21/V.11 V.35 V.36 EIA-530
Datacom Cables	Standard (CISCO)	No	Proprietary	No	Proprietary
Jitter	<ul style="list-style-type: none"> J. generator J. analysis J. tolerance J. transfer Single wide jitter scale 	<ul style="list-style-type: none"> J. generator J. amplitude J. tolerance J. transfer 	No	No	<ul style="list-style-type: none"> J. generator J. amplitude J. tolerance J. transfer
Wander	<ul style="list-style-type: none"> Generation Frequency offset Frequency drift 	Limited	No	No	-
TIE/MTIE/TDEV	• Yes, built-in real time analysis	No (requires a PC)	No	No	-
Frame Relay	Yes	No		No	Yes
Codirectional	Yes Full nx64	• Only 64 kb/s	Only 64 kb/s	No	Yes Full nx64
Contradirectional	Yes Full nx64	No	No	No	Yes Full nx64
Manufactured in	Europe	Asia	China		Asia
Warranty	3 years	1-2 years			1-2 years