



BGAN Physical Layer Tester Variants

The BGAN Physical Layer Tester (BPLT) is used to test Radio Access Nodes (RANs) and User Terminals (UTs) implementing Inmarsat's Broadband Global Area Network (BGAN), FleetBroadband, or SwiftBroadband services. Four versions of the software are available. The table below summarizes the feature set of each version. The BPLT application running on the SPCI Multi-Channel Platform (MCP) is referred to as the BPLT on MCP, or BMCP.

Feature	BPLT	BPLT-P	BMCP	BMCP-P	Notes
Runs on PLT-H platform	✓	✓	--	--	Windows XP
Runs on PLT-M (MCP) platform	--	--	✓	✓	Windows 7
Maximum number of physical channels	4	4	4	4	
Suitable for physical layer testing	✓	--	✓	--	
Suitable for protocol testing	✓	✓	✓	✓	
Supports all BGAN and BGAN-X bearers	✓	✓	✓	✓	
Supports analysis demodulators (auto-identification of burst types)	✓	✓	✓	✓	
Supports "SDM" demodulators (fully compliant performance in noise)	✓	--	--	--	
Supports script-based operation	✓	✓	✓	✓	
Supports control by external devices	✓	✓	✓	✓	Via Ethernet interface.
Supports control of external devices	✓	✓	✓	✓	Via Ethernet or USB interfaces (ARINC-429 and IEEE-488 via converters).
Supports satellite channel simulator for built-in modulators	✓	--	✓	--	
Supports standalone (pass-through) satellite channel simulator	✓	--	--	--	
Supports signal analysis	✓	--	✓	--	
Supports I/Q swap	✓	✓	--	--	

Feature	BPLT	BPLT-P	BMCP	BMCP-P	Notes
Supports UW corruption	✓	✓	--	--	
Supports monitor events	✓	✓	--	--	
Works with BGAN Network Emulator (BNE)	✓	✓	✓	✓	Available from GateHouse A/S.
Works with BGAN Application Tester (BAT)	✓	✓	✓	✓	Available from GateHouse A/S.
Works with BGAN Protocol Tester (BPT)	✓	✓	✓	✓	Available from Livewire Digital Ltd.

For applications not requiring physical layer test capabilities, the BPLT-P or BMCP-P provides BGAN physical layer emulation at a lower cost than the full BPLT or BMCP application.

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