

DigiTest[®] Metallic Services Unit

A high density
and modular
solution for
testing
traditional
and broadband
services

Tollgrade's DigiTest Metallic Services Unit (MSU) is a high density, modular solution for test access and testing two-wire services such as POTS and DSL.

The MSU is used to connect one or more Tollgrade test heads to multiple switch test access ports. MSU applications include test access when replacing traditional class 5 switches with Softswitch architectures. Using the MSU, DLC testing using Pair Gain Test Control is preserved.

The MSU can also be used in switch applications where test bus expansion is required.

Test access functionality is controlled by Tollgrade's LoopCare[™], 4TEL or Celerity test operating systems, using TL-1 messaging compliant with GR-834 and GR-818 standards.



**Tollgrade is everywhere
your broadband
network needs to be[™]**

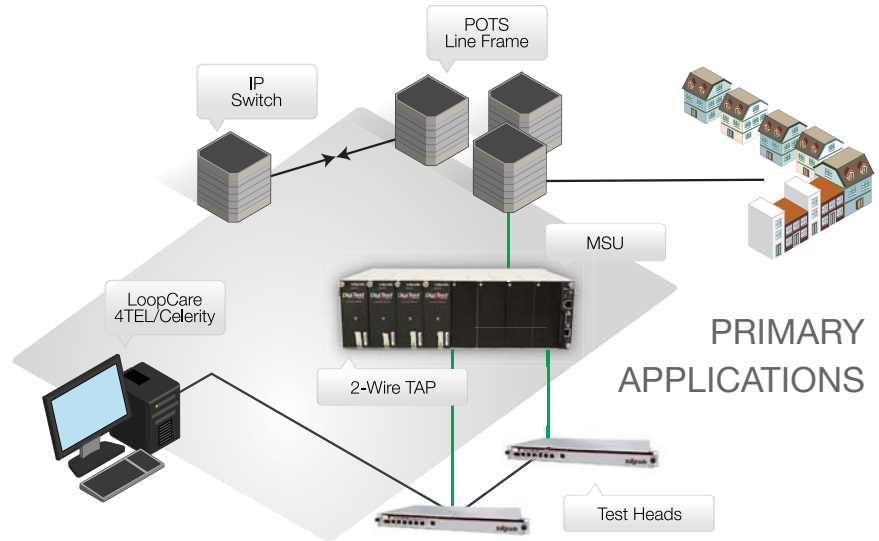
Features of Tollgrade's MSU include:

- Test access ports for testing toward the local loop and/or switch (upstream)
- 24 two wire test access ports per plug-in module
- 4 plug-in test access modules per chassis
- Each test access plug-in module can be paired with a test access module for busy sensing in PGTC applications
- Compatibility with Softswitch and POTS line frames
- Compatibility with LoopCare 4TEL and Celerity
- Alarm contacts for remote health monitoring

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The MSU connects one or more test heads to the test access ports of line frames or traditional class 5 switches. The MSU consists of a chassis, controller module, up to 4 slots for 24 port access matrix modules and up to 4 slots for PGTC sensing modules. Plug in modules use standard telco connectors

With the replacement of class 5 switches and switch based test access, the MSU preserves test capabilities for host, remote and DLC lines



ORDERING INFORMATION

Item	Ordering Number
DigiTest MSU Chassis	900-0754
MSU Control Module Master	900-0753
MSU Access Matrix Module—Single Bus	900-0752
MSU Installation Kit	905-0346
ISCL Network Termination Module or "Dongle"	980-0222
Cable Tie Kit	905-0280
Standoff Kit	905-0282
Blank Faceplate Kit (Qty 7)	905-0305
DigiTest MSU Installation Manual	040-0544

Certification

- NEBS Level 3 Compliant
- Suitable for installation in an Isolated Bonding Network (IBN)
- Suitable for installation in Network Telecommunications Facilities
- Battery return terminals are isolated DC return (DC-I)

Item	Description
Dimensions (Approximate) (H x W x D)	Chassis: 5.25" x 17" x 10.5" (13.3 mm x 43.2 mm x 26.7 mm)
Mounting	19" or 23" standard EIA rack or ETS 300 119 compliant rack/cabinet (600 mm x 300 mm).
Power	Input Voltage Requirement (Office Battery Voltage) -40.5 VDC to -57 VDC Current Requirements 250 – 500 mA NOTE: The equipment circuits are considered SELV secondary and must be powered by a certified DC power source which provides an adequate level of insulation between main and secondary outputs.
Operating Temperature	-40° C to +65° C (-40° F to +149° F)
Storage Temperature	-40° C to +70° C (-40° F to +158° F)
Humidity	5% to 95% (non-condensing)
Connectors	Chassis Alarm: RJ-11 (2) Power: Removable screw terminal block (2) ISCL Bus: RJ-45 (2) (COMM 1 and COMM 2) TAC Bus: RJ-45 (2) (DATA 1 and TAPs/DATA 2) Ground: Screw terminal (1) Line/Facility: RJ-21 (8) PSTN/Equipment: RJ-21 (8)
	Control Module Master Ethernet: RJ-45 (1) COM 1: DB-9 (1) AUX 1: RJ-45 (1)

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