

# Certifier40G Tier I Fiber Certification Modules

## NGC-4500-MM2 (Multimode), NGC-4500-SM2 (Single-Mode)



### Key Benefits

- Quickly and accurately certifies any fiber-cabling installation to meet TIA 568 C.3 and ISO 11801 industry standards
- One easy-to-use tool lets structured-cabling installers and professionals perform all their fiber and copper certifications
- The Touch<sup>2</sup> system has two complete touch screen user interfaces offering full fiber results at both ends that lets technicians see which direction the fiber has failed from wherever they are standing, saving them significant time walking
- Performs automated pass/fail test in less than 8 seconds

### Features

- Dual-ended loss, length, and polarity measurements of receive and transmit fibers
- Multimode adapter set with 850 and 1300 nm with dual-wavelength source (850 nm VCSEL and 1300 nm LED light source)
- Single-mode adapter set for certification testing at 1310 and 1550 nm wavelengths
- Complete, integrated, standards-based certification documentation and labeling
- Integrated database of common fiber cables and connectors

Voice and video, cloud computing, and virtualization are driving an increasing demand for fiber-cabling networks. To guarantee that these new fiber networks handle higher data rates, they must be certified based on the TIA 568 C.3 and ISO 11801 industry standards. These standards specify the insertion loss and length requirements for each type of fiber-optic cabling.

The JDSU Certifier40G includes test adapters to quickly and accurately certify any fiber-cabling installation. These adapters complement an existing, comprehensive copper-cabling feature set, letting structured-cabling installers and professionals perform all their fiber and copper certifications with the same, easy-to-use tool.

The revolutionary Touch<sup>2</sup> design, with intuitive touch screen at both ends makes using the Certifier40G the easiest cable tester ever. The full screen at both ends allows users in the field to minimize their walking time by initiating, configuring, viewing, and storing tests from either side of a link or channel. On a dual ended fiber test, an installer at either side of the test can quickly know which cable is the problem, unlike legacy testers.

### Applications

- Tier-I fiber certification of MM and SM fiber cables to meet TIA 568 C.3 and ISO 11801 standards
- Supports end-to-end or single-ended loss measurement
- Two identical units can be used as a two-way loss tester



**Specifications**
**Test standards**

TIA -568-C.3 Tier I Fiber testing  
ISO/IEC 11801

**Supported Fiber Cable tests**

Insertion loss (in each direction)  
Fiber cable length  
Polarity

**Module specifications**
**MM Test Module (NGC-4500-MM2)**

Fibers supported 62.5 and 50 μm fiber, including  
OM1, OM2, OM3, and OM4

Test connectors 2 – SC (1-TX, 1-RX)  
Adapter support wavelength 850/1300 nm  
Dynamic range 24 dB  
Length range 0 – 1,000 m  
Length measurement resolution 1.5 m

**Transmitter specification**

Output power (850 nm VCSEL) –10 to –4 dBm  
Output power (1300 nm LED) –10 to –15 dBm

**SM Test Module (NGC-4500-SM2)**

Test connectors 2 – SC (1-TX, 1-RX)  
Adapter support wavelength 1310/1550 nm  
Dynamic range 24 dB  
Length range 0 – 10,000 m  
Length measurement resolution 1.5 m

**Transmitter specification**

Output power (1310 nm) –9 to –5 dBm  
Output power (1510 nm) –9 to –7 dBm

**Dimensions**

Size 84 x 70 x 27 mm  
(3.3 x 2.8 x 1.1 in)

**Environmental**

Operating temperature 0 to 40°C (32 to 104°F)  
Storage temperature –20 to 60°C (–4 to 140°F)  
Relative humidity 10 – 80%

Note: Works only in conjunction with NGC-4500-FA mainframes

**Ordering information**

Part Number	Description
NGC-4500-MM2	Certifier40G MM Modules Kit, including 2 MM test adapters, reference cables, and mandrels
NGC-4500-SM2	Certifier40G SM Modules Kit, including 2 SM test adapters and reference cables
NGC-4500-FA- (NA/EU/UK/AU)*	Certifier40G Class-FA copper kit (Class-FA adapters not included)
NGC-4500-MM- (NA/EU/UK/AU)*	Certifier40G Class-FA copper and Tier I fiber multimode kit (Class-FA adapters not included)
NGC-4500-MMSM- (NA/EU/UK/AU)*	Certifier40G Class-FA copper and Tier I fiber multimode and single-mode kit (Class-FA adapters not included)

\*Please specify regional cables: North America (NA) Type A, European (EU) Type C, United Kingdom (UK) Type G, Australian (AU) Type I.

**Test & Measurement Regional Sales**

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