Certifier40G: Next-Generation Cable Certifier
NGC-4500

Key Benefits

- **Improves installer productivity by eliminating unnecessary walking between local and remote units, with a Touch[2] system that lets them view and analyze test results at both ends**

- **Protects your investment with the most advanced tester available that certifies beyond TIA-568 CAT-6A/ISO Class-FA 11801 standards, with a 1600 MHz measurement frequency**

- **Quickly increases the productivity of new and experienced installers using the revolutionary large touch screen with an intuitive user interface**

- **Accelerates testing and saves 30 minutes each time 150 CAT-6A cables are tested**

Features

- Revolutionary large touch screen at both test ends reduces walking time
- Complete TIA 568/ISO 11801 Copper certification and Tier I Fiber certification
- Future-proof 1600 MHz test frequencies
- Fastest CAT-6A/Class-FA and Tier I Fiber Pass/Fail test
- Level-IV accuracy over the full Class-FA spectrum
- Integrated planning software
- Optional integrated fiber end-face inspection

Optimize productivity

With its market-leading 9 second CAT-6A certification time per cable, the JDSU Certifier40G saves users 30 minutes each time they test 150 CAT-6A cables (compared to current solutions) and optimizes installer productivity.

The revolutionary Touch[2] design, with an intuitive touch screen at both ends, makes using the Certifier40G the easiest cable tester ever. A full screen at both ends minimizes the walking time for users in the field by initiating, viewing, and storing tests from either side of a link or channel. Unlike legacy testers, dual-ended fiber tests let installers at each test end quickly determine the problem cable.

Minimize time spent transferring results off the tester with the capacity to store more than 2,000 full CAT-6A graph results.

Future-proof

The next-generation measurement engine can measure above and beyond the frequency limitations of current testers, ensuring many years of productive service. The Certifier40G can measure frequencies for all current and future cabling standards required for copper cables.

Maximize value

The JDSU Certifier40G drives maximum value with a flexible, cost-effective permanent link design, field-rugged casing, and simple modular upgrade path. The identical local and remote units simplify inventory and repair. The wide frequency range of the base feature set eliminates further licensing costs when upgrading to new technologies.
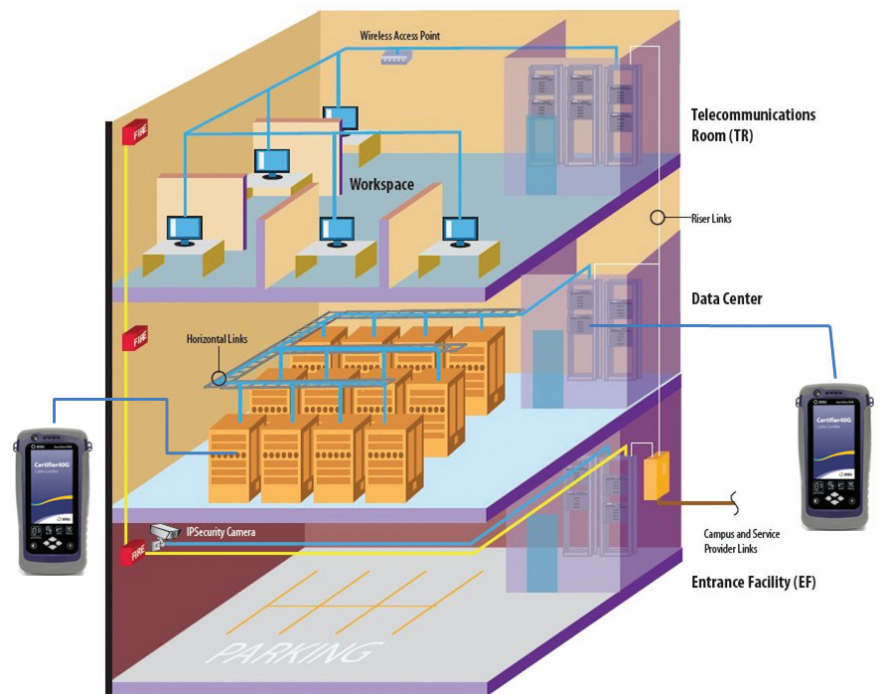
Easy-to-use large, graphical touch screen

Complete PC desk-reporting software

Increase productivity

The JDSU Certifier40G features a super-bright, color, touch-screen display with quick-launch buttons for easy test access. The rich display provides clear information about test and instrument status.

The Touch² system, with its full user interfaces at both ends of the test, minimizes setup and result evaluation time for technicians. Certification and troubleshooting that previously required two technicians to perform efficiently can now be performed using one technician with minimal walking time.

Economical

- **Innovative Permanent Link testing approach**

  The Certifier40G achieves the accuracy of probe-attached permanent-link cords with a test solution that is economical and accurate.

- **Rugged modules**

  The extra-rugged modules, flush with the main unit, eliminate users accidentally dropping expensive sensitive parts.

- **Easily track and manage devices**

  Identical main and remote units simplify managing parts and replacing units.

State-of-the-art, high-resolution, color touch screen

Identical main and remote with Touch[2] simplify control from both ends

Exceeds Level-IV accuracy

Future-proof measurement engine tests well-beyond 1 GHz

Field-rugged, cost-effective permanent link adapter

Large memory capacity for results storage

Upgradeable for fiber testing and inspection

No protruding adapter increases ruggedness

Performs 9 second CAT-6A test and 15 second Class-FA test

Supports USB memory stick for simple file transfer

One screen keypad simplifies entering data

From JDSU, the global leader in communications test and measurement

Complete planning and reporting software

Specifications

Test parameters

Frequency range	1 to 1600 MHz
TIA-1152 Level IIIe and ISO/IEC 61935-1 Level-IV accuracy	

Copper Cable tests

Attenuation (insertion loss)

Near-end crosstalk (NEXT) in pair-to-pair and power-sum

Attenuation-to-crosstalk ratio far end (ACRF), pair-to-pair, and power-sum

Return loss

Loop resistance

Wiremap and shield

Cable length

Total propagation delay

Delay skew between pairs

Fiber Cable tests

Loss (in each direction)

Fiber cable length

Polarity

Test standards

TIA -568-C.2 and TIA-1152 CAT-5, 5e, 6, 6A

ISO/IEC 11801, EN 50173 Class-C, D, E, EA, F, FA

TIA-568-C.3 Tier I Fiber certification

ISO/IEC 11801 Tier I Fiber certification

Power supply

Removable/rechargeable lithium ion batteries provide up to 8 hours continuous operation

AC power adapter	100—240 V AC

Dimensions

Mainframe size	232 x 126 x 86.7 mm (9.13 x 4.9 x 3.41 in)
Mainframe height approx. (per unit)	1.4 kg (3.0 lb)
Module size	84 x 70 x 27 mm (3.3 x 2.8 x 1.1 in)

Memory

More than 500 MB (more than 2000 test results) of internal flash memory

1 GB USB flash drive included for flexible test record storage

Connectivity

Probe interface connector

RJ45 Ethernet port

USB host and device interfaces

Talk set interface: 3.5 mm stereo jack

Environmental

Operating temperature	0 to 40℃
Storage temperature	−20 to 60℃
Relative humidity	10 to 80%

Pass/Fail test times

TIA CAT-6/CAT-6A test times	9 s
ISO Class -F/FA test times	15 s
TIA/ISO Tier I Fiber test time	8 s

Ordering information

Part number	Description
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)
NGC-4500-6ACH2	Certifier40G CAT-6A channel adapter pair
NGC-4500-6ALKIT2	Certifier40G CAT-6A permanent link testing kit
NGC-4500-MM2	Certifier40G multimode fiber adapter pair with mandrels and reference cords
NGC-4500-SM2	Certifier40G single-mode fiber adapter pair with reference cords
NGC-4500-TERACH2	Certifier40G Class-FA TERA channel adapter pair
NGC-4500-TERAL2	Certifier40G Class-FA TERA permanent link adapter pair
NGC-4500-GGARJCH2	Certifier40G Class-FA GG45/ARJ45 channel adapter pair
NGC-4500-GGARJL2	Certifier40G Class-FA GG45/ARJ45 permanent link adapter pair

Upgradable to add end-face inspection

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

Two complete units minimize time initiating, naming, and saving results

USB flash drive supports transferring test results

For more fiber testing and certification capabilities, combine the Certifier40G with one of the market-leading JDSU fiber testers, such as the T-BERD®/MTS-2000.

Visit **www.jdsu.com/go/Certifier40G** for more information, vendor endorsements, and product videos.