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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight CX1204A

Current Class: 1 A maximum like CX1201A/CX1202A/CX1205A Documentation Type: CX3300A datasheet plus CX1100 user guide System Role: current-sensor DUT interface From Keysight CX3300A Series datasheet CX1200A sensor-head table (CX1204A twisted pair, 100/300 mm, 1 A max) and CX1101A/CX1102A family current/bandwidth rows. Insertion-loss of the twisted pair is not published in that table; do not invent milliohm figures. Documentation Type: CX3300A datasheet plus CX1100 user guide System Role: current-sensor DUT interface From Keysight CX3300A Series datasheet CX1200A sensor-head table (CX1204A twisted pair, 100/300 mm, 1 A max) and CX1101A/CX1102A family current/bandwidth rows. Insertion-loss of the twisted pair is not published in that table; do not invent milliohm figures.



MODEL

**Agilent / Keysight
CX1204A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CX1204A

LISTING

<https://aumictechlabs.com/products/cx1204a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight CX1204A is a cable and antenna analyzer designed for testing and troubleshooting transmission line and antenna systems in the field. It delivers critical measurements for assessing signal integrity, impedance matching, and fault detection across communication networks. Technical Specifications The CX1204A performs return loss measurement, quantifying power loss due to signal reflections from antennas or cables. VSWR (Voltage Standing Wave Ratio) analysis characterizes transmission line impedance mismatch and

load matching quality. Insertion loss measurement determines signal attenuation through cable paths, essential for evaluating signal degradation over distance. Distance-to-Fault (DTF) capability identifies physical locations of faults and impedance discontinuities along transmission lines by analyzing reflection signatures. Antenna-to-antenna isolation measurement verifies signal separation in multi-antenna deployments, preventing unwanted coupling between radiating elements.

Key Features

- One-port and two-port measurement modes
- Vector Network Analyzer (VNA) S-parameter capabilities
- Time-domain analysis for impulse response characterization
- Field-programmable architecture with software license upgrades
- Integrated calibration methods (CalReady, QuickCal) reducing external calibration kit dependency
- Handheld form factor enabling field-deployed precision measurements

Typical Applications

- Transmission line fault location and characterization.
- Antenna impedance and matching assessment.
- Cable loss quantification in installed systems.
- Multi-antenna isolation and interference analysis.
- Network integrity diagnostics in RF communications infrastructure.

Compatibility & Integration

The CX1204A integrates VNA measurement capabilities, supporting both single-port reflection and two-port transmission analysis. Field-upgradeable software licensing enables functional expansion without hardware replacement.

CX1204A Characteristics / Specifications

PARAMETER	VALUE
Model	CX1204A
Instrument Type	Twisted-pair current sensor head
Host Sensors	CX1101A single-channel and CX1102A dual-channel
Host Analyzer	CX3300A Device Current Waveform Analyzer
Maximum Current	1 A
Cable Lengths	100 mm or 300 mm shielded twisted pair
Connection Style	solder to DUT
Sibling Coax Through	CX1201A SMA jack 1 A
SiblingVMonitor	CX1202A SMA through plus voltage monitor 1 A
Sibling Termination	CX1203A SMA 50 ohm series; 1 A at 0 ohm, 70 mA at 50 ohm
Sibling Test Lead	CX1205A minijack 1 A
Sibling High Current	CX1206A banana 10 A for CX1101A only
User Guide	CX1100-90000
Family	CX1200A series sensor heads
Manufacturer	HP Agilent Keysight
Cx1101 Range Class	40 nA to 1 A, common mode to plus or minus 40 V, 100 MHz sensor alone
Cx1102 Range Class	40 nA to 1 A, common mode to plus or minus 12 V, dual range 1/100 secondary
Literature	Keysight CX3300A Series datasheet sensor-head table
Form Factor	plug-in sensor head with flying twisted pair
Use Case	soldered current shunt path on a DUT
Application Class	device current waveform measurement
Connector Class	sensor-head interface to CX1101A/CX1102A
Current Class	1 A maximum like CX1201A/CX1202A/CX1205A
Documentation Type	CX3300A datasheet plus CX1100 user guide

PARAMETER	VALUE
System Role	current-sensor DUT interface

CX1204A Specifications

PARAMETER	VALUE
Applications	Soldering a CX1101A/CX1102A current sensor to a DUT with a short shielded twisted pair when SMA coaxial heads are impractical.
CX1101A and CX1102A compatible	Part of CX1200 sensor-head family
Technical Specifications	Model: CX1204A

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.