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Data Sheet

August 2, 2026

STANFORD RESEARCH

Stanford Research CG646 – RF (+7 dBm) up to 2050MHz

Stanford Research CG646 – RF (+7 dBm) up to 2050MHz The Stanford Research Systems CG646 is an optional RF output adapter for the CG635 Synthesized Clock Generator—it is not a standalone clock generator. The CG646 converts the CG635 rear-panel LVDS clock output into a 50 Ω RF output at +7 dBm, operating to 2.05 GHz with approximately 100 ps transition times. It connects to the CG635 via Category-6 cable from the rear-panel RJ-45 interface, allowing remote placement of the RF clock near the device under test. The Stanford Research Systems CG646 is an optional RF output adapter for the CG635 Synthesized Clock Generator—it is not a standalone clock generator. The CG646 converts the CG635 rear-panel LVDS clock output into a 50 Ω RF output at +7 dBm, operating to 2.05 GHz with approximately 100 ps transition times. It connects to the CG635 via Category-6 cable from the rear-panel RJ-45 interface, allowing remote placement of the RF clock near the device under test. Delivering clean RF-level clock signals to high-speed digital and communications systems; remote clock distribution from a CG635 master; RF drive for test fixtures requiring +7 dBm into 50 Ω loads.

No photo

MODEL

**Stanford Research
CG646**

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

CG646

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- RF (+7 dBm) output adapter for CG635
- Operates up to 2.05 GHz (2050 MHz)
- 50 Ω source and load impedance
- Approximately 100 ps transition times
- Connects via Category-6 cable to CG635 RJ-45 output
- Remote placement away from the CG635 mainframe
- Part of CG640–CG649 optional receiver family

CG646 Characteristics / Specifications

PARAMETER	VALUE
Stanford Research CG6	RF (+7 dBm) up to 2050MHz Overview The Stanford Research Systems CG646 is an optional RF output adapter for the CG635 Synthesized Clock Generator—it is not a standalone clock generator. The CG646 converts the CG635 rear-panel LVDS clock output into a 50 Ω RF output at +7 dBm, operating to 2.05 GHz with approximately 100 ps transition times. It connects to the CG635 via Category-6 cable from the rear-panel RJ-45 interface, allowing remote placement of the RF clock near the device under test.
Model	CG646
Manufacturer	Stanford Research Systems
Instrument Type	Optional RF Output Adapter
Parent Instrument	CG635 Synthesized Clock Generator
Output Type	RF (+7 dBm)
Maximum Frequency	2.05 GHz (2050 MHz)
Transition Time	approximately 100 ps
Source Impedance	50 Ω
Load Impedance	50 Ω
Input	RJ-45; LVDS clock pair from CG635 via Category-6 cable
Output	RF on SMA connector (+7 dBm class)
Power	supplied from CG635 rear-panel RJ-45 (+/-5 VDC for optional receivers) Standard Operating Conditions Use with a CG635 equipped for optional line receivers. Terminate RF output with 50 Ω when required. Observe Category-6 cable length limits versus frequency (OEM guidance: shorter cables at higher frequencies).
CG646 requires a CG6	it cannot generate clocks independently. For logic-level outputs, select other CG640–CG649 family adapters (CMOS, PECL, ECL, LVDS, etc.). Maximum usable frequency depends on cable length and quality.

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

Specifications

PARAMETER	VALUE
Model	CG646
Manufacturer	Stanford Research Systems
Instrument Type	Optional RF Output Adapter
Parent Instrument	CG635 Synthesized Clock Generator
Output Type	RF (+7 dBm)
Maximum Frequency	2.05 GHz (2050 MHz)
Transition Time	approximately 100 ps
Source Impedance	50 Ω
Load Impedance	50 Ω
Input	RJ-45; LVDS clock pair from CG635 via Category-6 cable
Output	RF on SMA connector (+7 dBm class)
Power	supplied from CG635 rear-panel RJ-45 (+/-5 VDC for optional receivers)

Standard Operating Conditions

Use withaCG635 equipped for optional line receivers. Terminate RF output with 50 Ω when required. Observe Category-6 cable length limits versus frequency (OEM guidance: shorter cables at higher frequencies).

Operational Notes

CG646 requiresaCG635—it cannot generate clocks independently. For logic-level outputs, select other CG640–CG649 family adapters (CMOS, PECL, ECL, LVDS, etc.). Maximum usable frequency depends on cable length and quality.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech

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<https://aumictechlabs.com>

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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.