RF PIC EVALUATION WITH RFCONNECT

AT A GLANCE
A compact RF PIC assembly for fast and convenient prototype development up to 40 GHz.

Features
- 8 RF I/O ports
- 8 optical I/O ports
- 42 DC I/O ports
- Therm. controllable
- Lid cover available

Applications
- controlling PICs for telecom applications, signal processing, signal generation and more
- enabling fast prototype development
- replacing expensive lab equipment
- overcoming manual electrical probing and optical coupling
- standardizing measurements

Technical Background
RFconnect, Fraunhofer HHI’s fiber coupled RF PIC assembly, states a compatible expansion of the already established DC multisource PiConnect. The thermally controllable assembly with 8 RF & optical ports and 42 DC ports facilitates the connection of RF measurement equipment.
RFconnect Evaluation Board with clamped module including the PIC

1 V connectors
2 25 DC pins (north side)
3 Clamp to connect module pins to PCB
4 Fiber array output (fiber array not shown here)
5 25 DC pins (south side)

Packaged PIC with RF, DC and fiber coupling (left), RFconnect PIC design template (right)

Expansion Board to connect HHI’s DC multisource PIConnect Mainboard

M. Sc. Axel Schönau
Photonic Components
Phone +49 30 31002-494
axel.schoenau@hhi.fraunhofer.de
Fraunhofer Heinrich Hertz Institute
Einsteinufer 37, 10587 Berlin
Germany
www.hhi.fraunhofer.de/pc